Construction News

OCTOBER BUILDING OPERATIONS

Building operations are continuing on a fair scale. Although in some sections of the country, the figures for the month show a decline, the other sections partially offset this loss by showing an increase. The whole situation shows improvement over a year ago due principally to the general industrial expansion.

The Eastern States give a decline but at this period of the year this is expected and contractors feel satisfied that conditions are much better than last year.

In the Central States an increase of four million is evidence that business is prospering and in comparison with a year ago shows a gain of over 40%.

Reports from the Southern States show a decline of over a million dollars since last month. It is difficult to account for this but it is believed that industrial operations in this section have decreased considerably, thereby affecting the building trade. A marked improvement, however, can be noticed over the same period of a year ago.

In the Western States the same activity is denoted as during the two months previous. The figures below, however, show a slight gain with a steady amount of operation.

Below is given a table showing the contemplated building operations in the different cities throughout the country:

EASTERN STATES

	Month of October 1915	Month of October 1914	First Ten Months of Year 1915	First Ten Months of Year 1914
Albany, N. Y.	$705,365	$239,225	$3,724,825	$5,562,700
Bridgeport, Conn.	655,354	174,437	7,490,001	3,122,473
Buffalo, N. Y.	856,000	604,000	10,109,000	9,864,006
Elizabeth, N. J.	108,049	163,405	983,472	1,215,027
Hartford, Conn.	493,718	360,135	4,577,596	3,360,491
Hoboken, N. J.	16,390	24,950	591,434	765,677
Jersey City, N. J.	438,706	156,850	4 214,323	3,130,966
Newark, N. J.	723,279	709,080	7,180,747	8,792,350
New Bedford, Mass.	151,675	175,350	2,948,779	2,690,377
New Haven, Conn.	280,120	231,315	5,854,942	3,569,117
New York, N. Y.:				
Bronx	2,235,000	1,202,675	22,790,050	19,641,943
Brooklyn	3,670,692	2,453,340	27,116,312	35,552,850
Manhattan	2,420,750	3,551,075	57,152,900	43,151,165
Queens	675,852	967,840	16,805,038	16,183,925
Paterson, N. J.	90,496	55,247	1,311,920	1,428,445
Philadelphia, Penn.	2,980,665	2,467,310	34,432,290	32,688,940
Pittsburgh, Penn.	1,274,960	1,085,348		
Reading, Penn.	91,775	28,475	975,075	1,118,825
Rochester, N. Y.	784,969	401,192	7,641,579	7,971,828
Scranton, Penn.	121,740	300,835	1,371,100	1,551,905
Springfield, Mass.	386,792	228,825	4,805,341	4,510,030
Syracuse, N. Y.	392,240	258,665	3,693,997	2,458,205
Utica, N. Y.	283,880	279,925	1,871,535	1,612,495
Totals	$19,838,467	$15,515,499	$227,441,266	$179,943,742

SOUTHERN STATES

	Month of October 1915	Month of October 1914	First Ten Months of Year 1915	First Ten Months of Year 1914
Atlanta, Ga.	$252,251	$215,988	$4,045,433	$4,254,524
Birmingham, Ala.	136,747	138,373	1,587,022	2,966,233
Chattanooga, Tenn.	90,440	61,872	474,404	1,018,879
Dallas, Tex.	243,887	204,150	2,841,845	4,989,735
Ft. Worth, Tex.	91,192	150,045	961,424	1,815,578
Houston, Tex.	132,645	175,520	1,416,353	3,295,619
Louisville, Ky.	304,040	327,040	3,350,885	4,061,515
Memphis, Tenn.	165,005	105,580	2,394,613	2,761,289
Norfolk, Va.	120,288	125,210	1,527,805	1,996,356
Richmond, Va.	181,203	122,620	2,684,314	2,940,205
San Antonio, Tex.	110,380	83,150	1,282,305	2,579,610
Tampa, Fla.	158,210	111,110		
Washington, D. C.	1,344,999	407,411	10,602,580	8,110,200
Totals	$3,331,287	$2,228,069	$33,168,983	$40,789,743

CENTRAL STATES

	Month of October 1915	Month of October 1914	First Ten Months of Year 1915	First Ten Months of Year 1914
Akron, Ohio	$1,215,045	$248,465	$3,746,065	$3,425,995
Canton, Ohio	173,600	94,035	1,706,440	1,513,740
Chicago, Ill.	12,479,250	6,774,200	77,290,680	70,534,910
Cincinnati, Ohio	865,575	402,235	11,862,469	8,239,903
Cleveland, Ohio	3,097,685	2,265,685	27,155,984	23,938,540
Columbus, Ohio	369,085	649,220	4,472,645	5,512,476
Des Moines, Iowa	221,701	145,084	1,666,191	1,795,248
Duluth, Minn.	217,240	236,625	2,336,522	2,609,318
Evansville, Ind.	76,383	99,850		
Grand Rapids, Mich.	169,576	152,080	2,208,892	3,324,744
Indianapolis, Ind.	532,777	337,689	6,111,365	7,318,158
Kansas City, Kan.	65,894	66,552	839,852	988,703
Kansas City, Mo.	1,512,015	533,790	9,350,765	9,639,150
Milwaukee, Wis.	747,169	611,577	10,455,671	8,798,928
Minneapolis, Minn.	2,338,555	1,064,570	14,515,516	13,989,510
Oak Park, Ill.	385,240	184,560	2,773,813	1,942,740
Omaha, Nev.	360,225	157,675	4,281,100	4,260,398
Peoria, Ill.	109,700	153,245		
St. Louis, Mo.	1,214,618	1,115,874	10,017,100	11,538,589
St. Paul, Minn.	739,308	1,001,300	9,242,233	13,437,945
Toledo, Ohio	815,552	404,939	6,828,499	5,668,561
Youngstown, Ohio	341,685	203,690	2,259,152	2,738,541
Totals	$28,047,878	$16,902,970	$209,120,954	$201,216,097

WESTERN STATES

	Month of October 1915	Month of October 1914	First Ten Months of Year 1915	First Ten Months of Year 1914
Denver, Colo.	$192,450	$157,985		
Los Angeles, Calif.	787,389	1,565,000	$9,999,460	$15,845,932
Oakland, Calif.	467,339	423,555	4,240,653	4,059,176
Portland, Ore.	351,030	508,705	4,382,882	5,278,890
Salt Lake City, Utah	167,155	107,605	1,934,555	2,704,564
*San Diego, Calif	119,408	115,886	1,022,702	2,801,763
San Francisco, Calif.	1,236,249	1,479,518	11,359,724	26,471,082
Seattle, Wash.	550,765	610,660	4,982,545	11,127,820
Spokane, Wash.	162,023	60,450	1,119,502	909,467
Tacoma, Wash.	70,205	46,563	659,811	1,845,596
Totals	$3,984,605	$4,960,041	$38,679,132	$69,242,527

*Not included in totals.

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Massachusetts—Worcester Consolidated Street Railway will extend Lake View Line to Lake Ave. thence to Sunderland Rd. to city line. H. C. Page, Worcester, Gen. Mgr.

Rhode Island—Rhode Island Co., plans line in Providence from city sea wall at Fields Point to connect with tracks of New York, New Haven & Hartford R.R. and Southern New England R.R. Edward Gagel, New Haven, Conn., Ch. Engr., New York, New Haven & Hartford, R.R.

Connecticut—Connecticut Co. plans to reconstruct tracks extending through Waterville, and double-track line from Homer St., where tracks enter Boyden St., through Thomaston Ave. C. H. Chapman, Mgr.

New Jersey—Council granted franchise to Salem-Pennsgrove Traction Co. for construction of line between Salem and Pennsgrove. Noted Sept. 30.

Pennsylvania—Philadelphia & West Chester Traction Co. plans extension of Collingdale Division from Parker Ave., Collingdale, to Chester Pike, Sharon Hill.

Delaware—Surveys being made for extension of Philadelphia & Reading Railway from South Wilmington, Del., to plants of Baldt Steel Co. and General Electric Co., near Newcastle. A. T. Dice, Philadelphia, Penn., Vice-Pres. and Gen. Mgr.

West Virginia—Huntington-Chesapeake Bridge Co., recently incorporated, asked County for franchise for street railway from Fourth Ave. and Sixth St. over Ohio River to Chesapeake, Ohio. Estimated cost, $500,000.

Kentucky—Baltimore & Ohio R.R. Co. securing right of way along river front in Ashland for extension from Kenova to Ashland. F. L. Stuart, Baltimore, Md., Ch. Engr.

Ohio—Baltimore & Ohio R R. Co. plans extending line and building station in Canton. Estimated cost, $200,000. F. L. Stuart, Baltimore, Ch. Engr.

Ohio—Cincinnati Traction Co. has secured right-of-way for extension of line to Bond Hill over Paddock Rd. Noted Aug. 26.

Ohio—Mahoning & Shenango Railway & Light Co. will reconstruct Wilson and Federal St. lines in spring. Estimated cost, $175,000. C. O. Bailey, Youngstown, Ohio, Pur. Agt.

Wisconsin—A. C. Lingelbach, Milwaukee, Wis., promoting building of interurban railway from Green Bay to Sheboygan.

Minnesota—Mesaba Electric Railway Co. contemplates improving line between Virginia and Hibbing. H. S. Newton, Gen. Mgr.

Montana—Plans prepared for railway from Ulm to Hound Creek, east of Great Falls, about 60 miles, for Great Falls & Southwestern Railway. E. L. Dana, Parkman, Wyo., Pres. Noted Sept. 16.

Missouri—Commercial Club contemplates building electric railway out of Joplin. A. S. Wilson, J. F. Lanier and Albert Schmidt are interested.

Arkansas—St. Louis, Iron Mountain & Southern Railway (Missouri Pacific System) contemplates branch line from Buffalo City to Rush, Ark. J. F. Murphy, St. Louis, Mo., Gen. Mgr.

Texas—Plans being prepared for railway connecting Van Horn north with New Mexico state line, about 71 miles. Van Horn Valley Land and Railway Co., R. H. Owen, Pres., interested.

Texas—Gulf, Colorado & Santa Fé Railway will soon receive bids for building Gulf and Interstate division from High Island to Port Bolivar, 27 miles.

Texas—Gulf, Texas & Western Railway will extend line from Mineral Wells, Tex. to Seymour, 108 miles, from Salesville east to Ft. Worth, about 50 miles. Benjamin B. Cain, Dallas, Vice-Pres. and Gen. Mgr.

Oklahoma—Company being organized to build railway from Frisco System at Peckham to Santa Fé System at Braman.

Oklahoma—Sallisaw, McAlester & Southwestern R.R. Co., recently incorporated, will build railroad in spring from Spigler through McAlester and to Coalgate. H. B. Smith, McAlester, interested.

Colorado—Surveys made and plans being prepared for electric railway to connect Denver with cities in northern part of state with one branch line to Estes and Rock Mountain National Park.

Colorado—Plans being prepared for taking roadbed and right-of-way of Denver, Laramie & Northwestern R.R. and electrifying road to Greeley. C. M. Smith, Supt., Utah Junction, Colo. (Denver post office). Estimated cost, $500,000.

Utah—Salt Lake & Utah Railway contemplates extension of line to Payson. W. R. Armstrong, Salt Lake City, Gen. Mgr. and Ch. Engr.

Utah—Union Pacific R.R. contemplates line from Park City to Uinta Valley, about 75 miles. R. L. Huntley, Ch. Engr., Omaha, Neb.

Nevada—Richmond Mining Co. plans railroad from Eureka to Elko.

Washington—McCoy Loggie Timber Co., Bellingham, will build four miles of railroad from present terminus to Welcome.

Washington—Pacific Traction Co. contemplates extending line on Stellacoom Blvd., Starling St. and Stellacoom Ave. to Union and Lafayette, about two miles. George W. Rounds, Gen. Mgr.

Washington—Puget Sound & Cascade Ry. Co. will extend line west from Clear Lake to Mount Vernon, 7 miles. B. R. Lewis, Pres.

Washington—Seattle Port Commission contemplates belt-line railroad-terminal system to serve Main Elliott Bay waterfront, Smith Cove, Interbay, Salmon Bay and Lake Union Districts. Proposition will be submitted to citizens at election on Dec. 4. Estimated cost, $400,000.

Oregon—Linnton Council granted franchise to O. M. Clark and associates for railway from Portland to Linnton.

Oregon—Southern Pacific Co. has entered into contract with Booth-Kelly Lumber Co. to build spur to timber land near Wendling Ranch. W. Hood, San Francisco, Calif., Ch. Engr.

California—(Official)—Bids will be received until Nov. 26 by Board of Public Works for railway from Rosasco into Hetch Hetchy reservoir, about 67 miles. M. M. O'Shaughnessy, San Francisco, City Engr. Noted Oct. 7 and 21.

California—Western Pacific Railway having preliminary surveys made for branch line from Quincy to Engels copper mine in Lights Cañon. C. M. Levey, San Francisco, Gen. Mgr.

Bids In and Contracts Awarded

North Carolina—Linville River Railway awarded contract to H. C. McCRARY, Knoxville, Tenn., for extending line from Montezuma via Linville, Linville Gap and Foscoe, N. C. to Shulls Mills, N. C., 14 miles. W. O. Dyer, Ch. Engr.

California—Pacific Electric Ry. awarded contract to ROBERT SHERER & CO., Los Angeles, for grading roadbed between Hawthorne and Iona Ave. on Redono via Watts Line. Estimated cost, $20,000.

LIGHT, HEAT AND POWER

Proposed Work

Mass., North Adams—Bids will be received until noon, Nov. 17, by School Committee, for heating and ventilating system in Drury high school. F. J. Oleara, Secy., School Bd.

Mass., Quincy—Fore River Shipbuilding Corporation plans to build power house. Estimated cost, $600,000.

N. Y., Albany—Municipal Gas Co. granted permit for construction of Riverside power station. Estimated cost of superstructure, $100,000.

N. Y., Oswego—Public Service Commission received application from Niagara, Lockport & Ontario Power Co., Buffalo, for permit to build transmission lines in Oswego.

N. Y., Patterson—Ralph Griffing has applied to Public Service Commission for permit to build electric-light plant and for approval of franchise granted by town.

N. J., Toms River—Ocean County Electric Co., recently incorporated with $525,000 capitol stock, plans to build a dam across Toms River between Toms River and Allenhurst to generate power for industrial purposes. J. P. Murray, Philadelphia, interested.

Penn., Mauch Chunk—Carbon Transit Co. will enlarge and concentrate power plants, install 250-hp. boiler and 300 kw., 600 volt d.c. generating unit.

Penn., Williamsport—Plans prepared for improving Northern Central Gas Co. Work includes two miles of 12-in. main and approximately 2,100-ft. of service lines in Rose St.

Va., Blackstone—Franchise granted C. E. Wilson, Crewe, for electric-light plant.

Fla., Clearwater—J. N. and J. M. McClung granted franchise by Commissioners of Pinellas County for electric-light and power system in Clearwater.

Fla., Homestead—Bonds for $40,000 voted for electric-light plant.

La., White Castle—Bids will be received until Nov. 17 by H. S. Batts, Mayor, for electric-light plant. E. A. Kramer, Magnolia, Miss., Engr.

Tenn., Camden—John D. Rice and W. Powry plan to construct electric-light plant.

Ohio, Canton—Bids will be received until Nov. 22 by Board of Education for electrical work in new Daniel Worley School.

Ohio, Eaton—Capitol stock of Eaton Lighting Co. has been increased from $50,000 to $80,000. Company plans to extend its transmission line and service to Camden, Ohio.

Ohio, Lorain—Citizens defeated $350,000 bonds for municipal electric-light plant. Noted Oct. 7.

Ohio, Mansfield—Plans being considered by Mansfield Electric Co. to extend its transmission line to Bellflower, about seven miles.

Ind., Grandview—Rockport Water Works Co., Rockport, plans to extend its transmission line to Grandview to furnish electrical service, about 15 miles.

Ind., Nashville—Citizens voted $7,000 bonds for electric-light plant.

Ind., Shoals—Shoals Utilities Co. plans to issue $27,500 capital stock, proceeds of which will be used for improving electric-light plant and water system.

Ill., Hamilton—Press reports state that right-of-way is being secured for transmission line from Hamilton to Carthage, about 12 miles.

Wis., Appleton—Bids will be received about Nov. 15 by Woodmansee & Davidson, Consult. Engr., First National Bank Bldg., Chicago, Ill., for addition to steam power plant of Wisconsin Traction, Light, Heat and Power Co. Noted Aug. 19.

Wis., Chippewa Falls—Wisconsin-Minnesota Light and Power Co. will rebuild dam of C. L. & B. Co. Estimated cost, $500,000.

Wis., Milwaukee—Plans being considered by Milwaukee Electric Railway and Light Co. to extend its transmission line to Merton and Lake Five.

Wis., Shawano—Election will soon be held to vote to issue $60,000 bonds for dam and hydro-electric power plant of Wolf River.

Iowa, Cedar Rapids—Iowa Power and Light Co. plans to build electric transmission line from Cedar Rapids to Shellsburg, about 15 miles.

Iowa, Corwith—City plans to install municipal electric-lighting system. Estimated cost, $5,000.

Iowa, Ft. Madison—Plans being considered by Ft. Madison Electric Co. for constructing a substation.

Iowa, Keokuk—Application has been made to State Public Utilities Commission by Mississippi River Power Co. for permit to build 12 mile spur from main transmission line to Carthage.

Iowa, Orient—City Council plans to install electric-light system. Estimated cost, $7,000.

Iowa, Waverly—See item under "Water Works."

Kan., Little River—Bids will be received until Nov. 15 for municipal electric-light plant and distributing system. Estimated cost, $16,000. W. B. Rollins & Co., 439 Midland Bldg., Kansas City, Mo., Engr.

Neb., Lincoln—Election will be held Nov. 19 to vote on bonds for installation of electric-lighting system.

N. D. Medina—City contemplates electric-light system.

Tex., San Angelo—See item under "Water Works."

Tex., San Anglo—See item under "Water Works."

Okla., Stillwater—Election will be held Nov. 16 to vote on $24,000 bonds for extending electric-light system.

Idaho, Dubois—See item under "Water Works."

Idaho, Oneida—Work will soon be started on addition to hydro-electric power plant of Utah Power and Light Co., Salt Lake City, on Bear River. Estimated cost, $250,000.

Utah, Garden City—Plans being considered by Swan Creek Electric Co. for enlarging its plant at Swan Creek and to extend its transmission lines to Paris, Bloomington, St. Charles and Fish Haven.

Calif., Loyalton—City plans to install municipal electric-light plant. Estimated cost, $5,000.

Que., Waterville—Sherbrooke Railway and Power Co. contemplates building substation.

Ont., Petrolia—Plans being prepared for transformer station. Estimated cost, $5,000.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Manhattan)—(Official)—Interboro Rapid Transit Co. awarded contract for substation No. 7 at 99th St. and Third Ave. to F. W. BURNHAM, 30 East 42d St.

N. J., Trenton—STRANG ELECTRIC CO., 214 South Seventh St., Philadelphia, Penn., at $4,024, awarded contract for electrical work for new admission building at State Hospital.

Ill., Dixon—Board of Administration awarded contract to W. M. ALIEN & SONS, Peoria, at $48,000 for power house for State Colony for Epileptics. Noted Sept. 30.

Ill., Peoria—Contract for electric work at new county jail awarded to ANTHONY KEEFER at $11,500; heating system to J. M. SHEA & CO., at $4,350.

Kan., Hiawatha—Contract for heating and plumbing system in new high school awarded to O'CONNOR CO., Muskogee, Okla., at $11,197.

Mo., Gallatin—See item under "Water Works."

Mo., Poplar Bluff—(Official)—Contract for municipal electric-light and power plant awarded to UNITED ENGINEERING CO., Chicago, Ill. Estimated cost, $46,400. Noted Oct. 21.

Que., Sherbrooke—Contract for municipal gas plant awarded to WESTERN GAS CONSTRUCTION CO., Cleveland, Ohio, at $30,980. Noted Aug. 12.

BRIDGES

Proposed Work

Mass., Boston—Bids will be received until noon, Nov. 22, by Metropolitan Park Commission, 1 Ashburton Pl., for reinforced-concrete bridge over Charles River at North Beacon St.

N. Y., Kingston—Commission of Highways, Albany, preparing plans for bridge at Kingston.

Penn., Watsontown—Northumberland County Court has directed Northumberland County Commissioners to build bridge across Susquehanna River between Watsontown and White Deer. Estimated cost, $150,000.

Ga., **Savannah**—Carolina, Atlantic & Western Railway plans to build bridge across Back River.

Tenn., **Harriman**—Plans prepared by S. A. Breazeale, Rd. Comr., for concrete bridge across Emory River. Estimated cost, $50,000.

Tenn., **Knoxville**—City Commissioners contemplate construction of a viaduct from Depot to Vine St. Estimated cost, $500,000.

Ky., **Covington**—(Official)—Bids will be received by J. Mason Howk, Comr. of Public Prop., until 10 a.m., Dec. 9, for bridge to carry duplicate water supply main over the Licking River. Noted Oct. 21 and Nov. 4. (See adv.)

Ohio, **Cincinnati**—Bids will be received by Board of County Commissioners until noon, Nov. 19, for concrete box culvert on Old State Rd., Anderson Township.

Ohio, **Cleveland**—Bids will be received by E. G. Krause, Clk., Comrs. of Cuyahoga County, until 10 a.m., Nov. 17, for bridge work. W. A. Stinchcomb, County Engr.

Ohio, **Monroe**—Election will be held in December to vote on $60,000 bonds for bridge over Raisin River.

Ill., **Highwood**—Chicago & Milwaukee Electric Railroad Co. contemplates bridges estimated to cost $40,000.

Ill., **Quincy**—(Official)—Bids will be received by County Superintendent of Highways until 2 p.m., Nov. 27, for steel bridge in Richfield Township, Adams County.

Wis., **Prairie du Sac**—Citizens voted $12,000 bonds for bridge over Wisconsin River.

Kan., **Abilene**—(Official)—Bids will be received until noon, Nov. 18, by County Commissioners for bridge repairs. Estimated cost, $7,000. Noted Oct. 7.

Kan., **Ottawa**—Citizens contemplate construction of bridge across Marais Des Cygnes River. J. Z. Clark, Comr.

Mo., **Joplin**—(Official)—Bids will be received by O. E. Lichliter, City Clk., until 10 a.m., Nov. 17, for North Main St. viaduct. Estimated cost, $35,000. Noted Oct. 7 and 21.

Ark., **DeQueen**—County Court has made an appropriation for bridge over Little River at Greenwood Shoals and Sycamore Creek near Lockesburg and to repair bridges.

Ark., **Wilmot**—Appropriation of $8,000 made by Commissioners of Ashley County, Hamburg, for steel bridge across Bayou Bartholomew near Wilmot.

Tex., **Marlin**—County Court has been asked by W. N. Moore, County Comr., Reagan, to replace bridge which was recently destroyed with 110-ft. steel span.

Tex., **Marshall**—Election will be held Nov. 23 to vote on $50,000 bonds for viaduct over tracks of Texas & Pacific Railway. Noted Nov. 4.

Colo., **Denver**—Commissioner of Improvements has asked for an appropriation of $45,000 for concrete bridge over Cherry Creek at West Colfax Ave.

Colo., **Denver**—Commissioner of Improvements has asked for appropriation of $30,000 for concrete bridge over Cherry Creek on Logan St.

Idaho, **Caldwell**—Bids will be received until Nov. 22 for bridge across Boise River. Estimated cost, $17,500. Fred H. McConnell, County Engr.

Calif., **Sacramento**—Bids will be received by California State Highway Commission, Forum Bldg., until Nov. 29, for plate-girder bascule bridge near easterly side of Yolo By-Pass. W. R. Ellis, Secy. of Comn.

Bids In and Contracts Awarded

N. Y., **Gloversville**—Bids were received for reinforced-concrete bridge over east channel of Hudson River from K. Guthrie, Schenectady, at $23,500 and J. F. Leary Construction Co., Rochester, at $25,960.

Penn., **Bethlehem**—S. W. Chiles, South Bethlehem, at $4,252, submitted lowest bid for paving Broad St. bridge.

Penn., **Kennett Square**—P. J. Riley, Westchester, at $5,650, submitted lowest bid for stone arch bridge over Red Clay Creek.

Penn., **Mercer**—Bids were received for bridge to replace State St. structure from T. F. Hungiville, at $54,000, for single span bridge and from Canton Bridge Co., at $49,990, for two span bridge.

Va., **Hampton**—E. C. McCOMB, Roanoke, at $4,850, submitted lowest bid for three concrete bridges. Noted Oct. 14.

N. C., **Kinston**—Contract for bridge over Neuse River at Caswell St. awarded to VIRGINIA BRIDGE AND IRON CO., Roanoke, Va., at $9,485. Noted Oct. 21.

Ind., **Lafayette**—Contract for steel bridge over Wildcat Creek, east of Dayton, awarded to WEST & JAMISON, at about $11,000.

Ill., **Rockford**—(Official)—Contract for superstructure of bridge in Rockton Township awarded to WORDEN-ALLEN CO., Milwaukee, Wis., substructure to NORTHERN STEEL AND CONCRETE CO., Freeport, Ill. A. R. Carter, County Supt. of Highways. Noted Oct. 7.

Wis., **Cleveland**—Contract for steel bridge across Eau Pleine River awarded to WASSAU IRON WORKS, Wassau, at $12,989.

Minn., **St. Paul**—Contract for bridge at Surrey St. awarded to ILLINOIS STEEL CO., at $7,645.

N. D., **Montpelier**—Contract for bridge awarded to J. JARDEEN, Jamestown, at $8,000.

Tex., **Harrisburg**—Horton & Horton, at $19,960, submitted lowest bid for bridge in Harris County.

Okla., **Beaver**—Contract for bridge over Cimarron River for Beaver, Mead & Englewood Railway Co., awarded to J. T. HARVEY, Wichita, Kan.

Okla., **Enid**—Contract for constructing and repairing bridges in Garfield County awarded to MONARCH ENGINEERING CO., Falls City, Neb., at $12,911. Noted Sept. 16.

Colo., **La Junta**—Contract for bridge across Purgatory River awarded to PUEBLO BRIDGE CO., at $6,440.

Idaho, **Boise**—Bids were received Oct. 22 for steel bridge across Lake River at McKeeth's Ferry as follows: Missouri Valley Bridge and Iron Co., Denver, Colo., $19,860; Coas Bridge Co., Portland, Ore., $20,000; Midland Bridge Co., $20,750.

Wash., **Walla Walla**—Contract for steel bridge awarded to C. L. GRAVES at $4,090.

Ore., **Heppner**—GRANT-SMITH & CO., Henry Bldg., Seattle, at about $10,000, awarded contract for steel superstructure of bridge for Oregon-Washington Railway and Navigation Co.

Calif., **Los Angeles**—MESMER & RICE, 231 Marsh-Strong Bldg., Los Angeles, awarded contract for bridge over Castaic Creek, at $30,761, and for bridge over south fork of Santa Clara River at $25,974.

Calif., **Sacramento**—(Official)—Bids were received Oct. 1 by State Highway Commission for bridge in Imperial County as follows: Holland Construction Co., San Diego, $15,600; Forest City Paving & Construction Co., Live Oak, $17,885; Robert Shearer & Co., Los Angeles, $28,748.

Calif., **San Diego**—P. H. C. SPARKS, at $7,380, awarded contract for concrete bridge over San Elijo Lago on State Highway at Ardiff.

Calif., **Santa Barbara**—Contract for steel bridge across Dos Pueblos Creek awarded to SECURITY CONSTRUCTION CO., 3710 South Alameda St., Los Angeles, at $9,720; reinforced-concrete girder bridge across Eagle Canon Creek to BOARDMAN CONSTRUCTION CO., 1107 Story Bldg., Los Angeles, at $10,961.

WATER WORKS

Proposed Work

N. Y., **Glens Falls**—Citizens defeated proposition to install gravity water system. Estimated cost, $270,000. C. E. Perry, Albany, Consult. Engr.

N. Y., **Ramapo**—Ramapo Mountains Water Power and Service Co., recently incorporated with capital of $150,000, will build water distributing plant.

N. J., **Glen Rock** (Ridgewood Post Office)—Board of Public Utility Commissioners granted permission to Glen Rock Water Works to make extensions to water system and install hydrants.

N. J., **Ventor**—Bids will be received until Nov. 22 by city for supply of pumps, air compressors, etc.

Penn., **Contesville**—City will proceed with construction of Rock Run Water Works. Bonds for $185,000 voted for same two years ago.

Penn., **Fleetwood**—City plans to install water system. Estimated cost, $10,000.

Va., **Mineral**—City plans to install water system. Estimated cost, $5,000. W. P. Burch, Clk. of Water and Light Com. of Business Men's Assoc.

N. C., **Greensboro**—See item under "Sewers."

La., **Monroe**—City plans to issue $500,000 bonds. Part of proceeds will be used to improve water system.

Tenn., **Benton**—Citizens defeated $10,000 bond issue for water works. Noted Sept. 30.

Miss., **Pass Christian**—See item under "Streets and Roads."

Ohio, **Athens**—City plans to construct water system. Estimated cost, $40,000.

Ohio, **Byesville**—(Official)—Citizens defeated $40,000 bonds for water system. Noted Sept. 30 and Oct. 21.

Ohio, **Janesville**—Plans being prepared for enlarging and relining two city reservoirs. Estimated cost, $25,000.

Ohio, **Sandusky**—Bonds for $8,300 will be sold for improving water system.

Ohio, **Shaker Heights**—(Cleveland post office)—Bids will be received by C. A. Palmer, Village Clk., First National Bank Bldg., Cleveland, until noon, Nov. 30, for 10-in. water main in South Woodland Rd.

Ind., **Shoals**—See item under "Light, Heat and Power."

Mich., **Albion**—Election will be held Dec. 14 to vote on $10,000 bonds for completing municipal water system. Noted Nov. 4.

Mich., **Menomoninee**—(Official)—Citizens voted $285,000 bonds for either purchase of property of Menomoninee Water Co. or construction of municipal water system. Noted Oct. 21.

Mich., **Tecumseh**—Board of Trade interested in formation of company to be known as Tecumseh and District Waterworks Corporation, who plan to install water system. Estimated cost, $25,000.

Ill., **West Frankfort**—Bids will be received by O. Dorris, City Clk., until Nov. 22, for municipal water system.

Wis., **Madison**—M. E. Layne, of Layne & Bowler Co., Houston, Tex., retained to survey water system and submit a plan for development of the artesian water supply.

Wis., **Madison**—University of Wisconsin has had preliminary plans prepared for improving pumping station. Estimated cost, $20,000.

Wis., **Melrose**—Bids will be received by Z. P. Gilbert, Village Clk., until Dec. 1, for water system.

Wis., Sheboygan—City Commissioners contemplate installing 300 hp. high pressure boiler and 12,000,000 gal. high duty pumping station.

Iowa, Holstein—See item under "Sewers."

Iowa, Moville—Citizens voted $6,000 bonds for water system.

Iowa, Waverly—Bonds for $50,000 voted to purchase electric-light plant and construct sewage-disposal plant and water system.

Minn., St. Cloud—Bids will soon be received for 13,000 ft. of 6-in. iron water pipe.

S. D., Scotland—Town Council contemplates new water system. Estimated cost, $4,000.

N. D., Ellendale—(Official)—Citizens defeated $9,000 bonds for water system. Noted Oct. 21.

Mont., Brondview—Bids will soon be received for water system. Estimated cost, $30,000.

Mont., Glendive—Construction of 2,000,000-gal. filtration plant under consideration. A. Colin, City Clk.

Mont., Roundup—Contract will soon be awarded for extension of water mains along various streets in District No. 13. Estimated cost, $10,000.

Ark., Piggott—City has issued $40,000 for proposed water system. A. C. Moore, Joplin, Mo., Consult. Engr.

Tex., Alice—City plans to extend water mains about 30 blocks and install about 30 fire plugs.

Tex., Beeville—Bartlett & Ranney, Consult. Engr., San Antonio, retained to prepare plans for water system and electric-light plant. Estimated cost between $20,000 and $30,000. Noted Sept. 23.

Tex., San Angelo—Plans being considered by San Angelo Water, Light and Power Co. for improving water system and electric-light plant. Estimated cost, $50,000.

Tex., Winters—Bonds for $6,000 voted for extending water system.

Okla., Cleveland—Election will soon be held to vote on $125,000 bonds for water system. A. C. Moore, Joplin, Mo., Consult. Engr.

Okla., Clinton—Plans being prepared by Benham Engineering Co., Colcord Bldg., Oklahoma City, for water works. Noted Oct. 14.

Colo., Boulder—City plans expenditure of $6,000 for improving water system.

Colo., Loveland—City Council estimates cost of improving water system at $60,000. Noted Oct. 21

Colo., Platteville—Plans prepared by L. L. Stimson, Greeling, for water system. Estimated cost, $20,000. Noted Oct. 14.

Idaho, Dubois—D. T. Murphy, Pocatello, plans to install water system and electric-light plant.

Idaho, Fairview—Election will be held Nov. 22 to vote on $10,000 bonds for municipal water system.

Utah, Roosevelt—Contract will soon be awarded for water system. Estimated cost, $10,500.

Wash., Nooksack—L. A. Sorber, Nooksack, has applied for water rights to construct two water systems to supply the towns of Nooksack and Everson. Estimated cost, $10,000 each.

Wash., Ridgefield—Citizens voted to issue $11,000 bonds for water system. Noted Sept. 30.

Calif., Corcoran—Election will soon be held to vote on $30,000 bonds for water system.

Calif., Imperial—See item under "Sewers."

Calif., Oakdale—South San Joaquin Irrigation District plans to build reservoir. Estimated cost, $300,000.

Calif., San Francisco—City will install water main and water tank in University Mound District. Estimated cost, $4,000.

Calif., San Francisco—Bids will be received by Supervisors' Finance Committee until Dec. 6 for purchase of $43,287,000 bonds for Hetch Hetchy project.

Calif., Stockton—Plans prepared for improving pumping station of Pacific Gas and Electric Co., at Sonora and East St. Estimated cost, $25,000.

N. B., St. Andrews—Town Council plans to extend water system. Estimated cost between $20,000 and $30,000.

Bids In and Contracts Awarded

Conn., Hartford—Bids received Nov. 1 by Board of Water Commissioners for clearing and grubbing Nepaug Reservoir, (a) northern section, (b) southern section, as follows: L. I. Fletcher, Akron, Ohio, (a) $25,670, (b) $22,745; F. T. Ley Co., Springfield, Mass., (a) $26,720, (b) $21,895; Roberts Construction Co., Fitchburg, Mass., (a) $24,990; Davis & Brock, Brookline, Mass., (b) $23,450. Noted Oct. 21.

N. J., Bayonne—Board of Commissioners has awarded contract to CHARLES T. KAVANAUGH, INC., for water system in 22d St. Estimated cost, $10,999.

N. J., Peapack—Contract for water system awarded to H. C. BROOKS CO., Martinsburg, W. Va., at $45,000. Noted Sept. 9 and Oct. 14.

Iowa, Humbolt—Contract awarded to DES MOINES BRIDGE AND IRON CO., Des Moines, for water system. Noted Aug. 26

Iowa, Kenawha—MIDWEST ELECTRIC CO., Omaha, Neb., at $4,755, awarded contract for distribution plant.

Iowa, Perry—Contract awarded to MERKLE-HINES MACHINE CO., for pump for water-works. Estimated cost, $[illegible]00.

Minn., St. Paul—Contract for laying pipes on Third Ave. and Third St. S., awarded to O'NEIL & PRESTON, St. Paul, at $25,400.

Kan., Newton—Contracts for improvements to water system awarded as follows: MURRAY IRON WORKS, Burlington, Iowa, at $8,175 for generating engines; H. R. WORTHINGTON, 925 Scarritt Bldg., Kansas City, Mo., at $9,636, for 3,000,000-gal. Corliss pump in engine and at $5,790, for two deep well pumps.

S. D., Dallas—Contract for water system awarded to C. H. GREEN & CO., at $10,000. Noted Oct. 14.

Mo., Gallatin—Contracts for water works and electric light improvements awarded to WESTINGHOUSE CO., for 75 K.v.a. generator, exciter and switchboard with equipment and station wiring; AMERICAN WELL WORKS, for two centrifugal pumps with 20 hp. motors; AMERICAN CAST IRON PIPE CO., for 150 tons 4 in. c.-i. pipe and 10,000 lb. special castings; MERKLE-HINES MACHINERY CO., for fire hydrants, hub-end connections, gate valves and valve boxes; GEORGE TOMLINSON, for power house, pump and engine foundations, concrete storage reservoir and repair to well; F. D. MARTIN CONSTRUCTION CO., for all pipe valves, fittings for pumps at power house and well.

Mo., Kansas City—Contract for intake for pumping station awarded to MISSOURI VALLEY BRIDGE AND IRON CO., Leavenworth, Kan., at $30,350.

Ark., Heber Springs—Contract for water system awarded to INLAND CONSTRUCTION CO., Chandler, Okla., at $50,800. Noted Oct. 28.

Wash., Hillyard—All bids received for water tanks rejected as too high. Sawyer Bros., Spokane, Consult. Engr. Noted Aug. 12 and 19.

Ore., Amity—(Official)—Contract for water system awarded to J. P. O'NEILL, Portland, at $9,777. Noted Sept. 30 and Oct. 28.

SEWERS

Proposed Work

Mass., Boston—(Roxbury)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., City Hall Annex, until noon, Nov. 12, for pipe sewers and drains in Randall St., Roxbury.

Mass., Boston—(West Roxbury)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., 511 City Hall Annex, until noon, Nov. 12, for sewerage works in Pleasant, Dent, Ivory and Perham St., West Roxbury.

Mass., Boston—(West Roxbury)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., City Hall Annex, until noon, Nov. 18, for sewerage works in Woodman, Custer, Ballard, Bardwell, Hathaway, Center and Aldworth St. and Dunster Road, West Roxbury.

Mass., Boston—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., City Hall Annex, until noon, Nov. 15, for sewer work in Canal St.

Mass., Boston—Appropriation of $26,000 for sewers on North Beacon St. approved by Mayor.

Mass., Boston—Bids will be received by Metropolitan Water and Sewerage Board, 1 Ashburton Pl., until 1:30 p.m., Nov. 12, for Metropolitan Sewerage Works.

Mass., Brighton—City plans to install sewers in North Beacon St. between Cambridge and Market St. Estimated cost, $26,000.

N. Y., Oneonta—City contemplates sewage-disposal plant. Estimated cost, $45,000. F. M. Gurney, City Engr.

N. Y., Patchogue—City plans an expenditure of $116,000 for sewer work. C. Potts, 30 Church St., New York, Consult. Engr.

N. J., Atlantic Highlands—Council instructed by State Board of Health to install sewage-disposal plant. Citizens voted to appropriate $25,000 bonds for extension of sewers within borough limits.

N. J., Camden—Bids will be received by Highway Department until 8 p.m., Nov. 15, for sewers in Pulaski, Ninth, 29th and 30th St., Sherman and Arthur Ave. and Park Blvd.

N. J., East Orange—City considering plans for joining Passaic Valley sewerage system, including Orange and Montclair. Estimated cost from $550,000 to $900,000. Hering & Gregory, 170 Broadway, New York, N. Y., Engr.

N. J., Ocean Grove—(Official)—Bids will be received at office of Neptune Township Committee, 75 South Main St., until 8 p.m., Nov. 22, for about 10,800 lin. ft. of citrified pipe sewers. (See adv.)

N. J., Perth Amboy—City Council contemplates new sewer systems in Cornell St. and Compton Ave. Wilbur La Roe, City Clk.

N. J., Trenton—Ordinances have been passed authorizing construction of sewers Nos. 642, 643 and 637 in Emmett, Park and Home Ave.

Penn., Allentown—C. D. Wierbach, City Engr., estimated cost of sewer system and sewage-disposal plant on Koehler Farm at $1,318,250.

Penn., Columbia—(Official)—Citizens defeated $100,000 bonds for sewer system. Noted Oct. 28.

Penn., Greensburg—City contemplates sewage-disposal plant. J. J. Neel, City Engr.

Penn., Harrisburg—(Official)—Bids will be received by Samuel B. Rambo, Supt. of Pub. Grounds and Bldg., until 2 p.m., Nov. 23, for sewer outlet from Pennsylvania State Capitol and Library Buildings to connect with brick sewer at Third and State St.

Penn., Parnassus—Chester & Fleming, Engr., Pittsburgh, retained to prepare plans for sewage system and sewage disposal plant.

Md., Baltimore—Sewerage Commission asked City Controller for appropriation of $200,000 for sewer work in 1916.

N. C., Greensboro—Election will be held Dec. 14 to vote on $75,000 bonds for improving and extending sewers and water system.

Ga., Atlanta—City contemplates sewer system in Buckhead District. Estimated cost, $50,000.

Fla., Eustis—Isham Randolph Co., Chicago, Ill., preparing plans for sewerage system, including Imhoff tank. Estimated cost, $20,000.

Fla., St. Augustine—C. E. Henderson, City Engr., preparing plans for sewer system.

Tenn., Camden—City plans to construct sewer system during 1916.

Ky., Lexington—(Official)—Citizens voted $350,000 bonds for sewer system. James J. O'Brien, City Clk. Noted Sept. 16.

Ky., Lexington—Ordinance passed by City Commission authorizing construction of sanitary sewers and paving several streets in Forest Hill. J. O'Brien, City Clk.

Ohio, Canal Dover—City contemplates sewage-disposal plant about one mile south of Canal Dover. Estimated cost, $60,000. G. E. Arnold, Broadway, New Philadelphia, Engr.

Ohio, Columbus—Bids will be received until Dec. 1 by George A. Borden, Dir. of Pub. Serv., for motor-driven centrifugal pump at East Side sewage pumping station.

Ohio, Columbus—(Official)—Bids will be received by G. A. Borden, Dir. of Pub. Serv., until noon, Nov. 23, for Frames Ave. relief sewer.

Ohio, Dayton—City plans sewer district in Dry Hollow Centers. Estimated cost, $200,000. Harrison P. Eddy, Consult. Engr.

Ohio, Elyria—Plans being considered by City Council for three large storm sewers. Estimated cost, $150,000.

Ohio, Lakewood—Bids will be received by E. M. Cook, Dir. of Finance, until noon, Nov. 15, for sale of $9,270 bonds for sewer in Louis Drive.

Ohio, New Comerstown—City contemplates sewage-disposal plant. Estimated cost, $60,000. E. Beaty, City Engr.

Ohio, Springfield—(Official)—Bids will be received by C. E. Ashburner, City Mgr., until noon, Nov. 15, for constructing a number of sewers in various streets.

Ohio, Toledo—Bonds for $60,070 sold for five miles of sewers in Home Acres, West Toledo. Noted Oct. 28.

Ohio, Urichsville—Plans will soon be prepared for sewage-disposal plant to be used jointly by Urichsville and Dennison. Estimated cost, $75,000. George E. Arnold, Broadway, New Philadelphia, Engr.

Ohio, Xenia—(Official)—Bonds for $60,000 sold for sewage-disposal plant. Noted Oct. 14.

Ind., Indianapolis—Board of Works plans to construct sewers in Meridian, Madison and State St. Estimated cost, $16,000.

Ind., Logansport—Bids will be received some time next spring for sewers in eastern section of city. Estimated cost, $350,000. Noted Aug. 19 and 26.

Mich., Hancock—(Official)—We have been informed that city will do nothing at present time in regard to new sewer system as stated in our issue of Oct. 21.

Ill., McHenry—City plans to install sewer system. Estimated cost, $8,090.

Wis., Racine—Board of Public Works estimates cost of sewers in district bounded by Herrick Ave., 12th St., Washington Ave. and Washington Park at $14,020.

Wis., Superior—City plans an expenditure of $35,000 for sewer work.

Iowa, Holstein—Citizens voted $18,000 bonds for sewer and water systems. A. G. Merkley, City Recdr.

Iowa, Waverly—See item under "Water Works."

Minn., Duluth—City contemplates sewer in 56th Alley from Main to Nicollett St.

Minn., St. Paul—(Official)—Bids will be received by August Hohenstein, Pur. Agt., Courthouse and City Hall, until 10:30 a.m., Nov. 15, for sewer on Page St. between Andrew St. and Brown Ave.

Minn., St. Paul—(Official)—Bids will be received by August Hohenstein, Pur. Agt., Courthouse and City Hall, until 10:30 a.m., Nov. 15, for sewer on Carroll Ave.

Kan., Larned—Preliminary plans being prepared by Black & Veatch, Engr., Kansas City, Mo., for storm sewers. Estimated cost, $80,000.

Kan., Liberal—Plans being prepared by E. T. Archer & Co., Engr., Kansas City, Mo., for sewer system and sewage disposal plant. Estimated cost, $35,000.

Kan., Neodesha—Plans being prepared by Black & Veatch, Engr., Kansas City, Mo., for sewage-disposal plant. Estimated cost, $50,000.

Kan., Osborn—Preliminary plans being prepared by Black & Veatch, Engr., Kansas City, Mo., for storm sewer.

N. D., Mandan—Report submitted estimated cost of installing drainage system in portion of city at $16,131. Black & Griffin, Engr.

Ark., Nashville—See item under "Water Works."

Tex., Austin—See item under "Streets and Roads."

Tex., Ennis—Plans being prepared by N. Werenskoild, Consult. Engr., Dallas, for sewage-disposal plant.

Tex., Houston—Citizens voted $1,000,000 bonds for sanitary sewers and sewage-disposal plants.

Tex., Lancaster—Plans are being prepared for sanitary sewer system. Estimated cost, $15,000. H. E. Rawlins, City Secy. Noted Oct. 21.

Tex., Temple—City Commissioners authorized extension of sanitary sewer mains in northwestern section of city 6,000 ft.

Okla., Muskogee—Bids will be received about Dec. 1 for sanitary sewer system. Estimated cost, $23,000. E. F. Peterson, City Engr. Noted Oct. 14.

Wash., Seattle—Report submitted to City Council estimating cost of sewers in West and North 50th St. at $68,619.

Ore., Portland—All bids for reconstructing wood box sewer in Mill and Water St. rejected. New bids will be received. Noted Oct. 28.

Ore., Portland—City Council rejected all bids for sewer in Hall St. New bids will be received.

Calif., Imperial—Election will soon be held to vote on $100,000 bonds. Part of proceeds will be used for improving sewer and water systems.

Calif., Los Angeles—City plans to construct sewers in Meridian, Ardmore, Van Ness and 57th St.

Calif., Los Angeles—Plans being prepared for north outfall sewer system. Estimated cost, $2,000,000.

Calif., Oak Park—Joseph E. Tempest, Engineering Dept., will prepare plans for six miles of sewers.

Calif., Santa Monica—(Official)—Election will be held Dec. 7 to vote on $250,000 bonds for storm sewer system. Noted Oct. 28.

Calif., Stockton—City Engineer estimates cost of sewers in Homestead, Kidd's, Mark's, Lane's and Sunset Addition and Vischer Tract at $32,844.

N. B., St. John—Extension of water and sewage mains on Portland Pl. recommended by R. W. Wigmore, Comr.

Ont., Ottawa—Bids will be received some time in January for supply of catch basin covers. Estimated cost, $10,000. F. C. Askwith, Engr.

Man., Beverly—City plans to improve sewage system and sewage disposal plant. Estimated cost, $15,000.

Bids In and Contracts Awarded

Mass., Bridgewater—John E. Palmer, Old South Bldg., Boston, at about $6,000 submitted lowest bid for sewer system. Noted Nov. 4.

R. I., Woonsocket—(Official)—Brien & Bonvier, Woonsocket, at $4,715, submitted lowest bid for surface water drain in Carrington Ave. and Maple St. Noted Oct. 28.

N. Y., Greenwich—(Official)—John D. Dower, Ballston Spa, at $4,237, submitted lowest bid for sewers in Elm Ave., Main and Bridge St. Noted Oct. 28.

N. Y., Hudson—Contract for sewer system at Fair Ground Blvd. awarded to GREEN-STAR ENGINEERING CO., Philadelphia, Penn.

N. Y., New York—(Borough of Manhattan)—(Official)—Lowest bids received Nov. 5 for tunnel relief sewer in West 46th St. were as follows: Frazer & Burchenal, 80 Maiden Lane, $259,013; Battery Engineering and Construction Co., 17 Battery Pl., $292,438; James O'Leary, $283,872. Noted Oct. 21.

N. J., Atlantic Highlands—(Official)—Contract for 2½ miles of 8- to 19-in. sewer awarded to R. W. SMITH CORPORATION, 30 Church St., New York, N. Y., at $15,401. Noted Oct. 28.

N. J., Hightstown—Contract for six car loads of 8-in. sewer pipe awarded to SHANGLE & HUNT; contract for installing same awarded to MARTIN NOLAN, A. P. DEVLIN and DAVID EXCEL.

Md., Baltimore—Thomas Mullen, 3002 Greenmount Ave., Baltimore, submitted lowest bid for lateral sewers under Contract No. 163. Calvin W. Hendrick, 904 American Bldg., Ch. Engr. Sewage Comn.

Ohio, Cincinnati—Contract for sewer in Culvert St. awarded to THURBER & BROWNING CO., Cincinnati, at $6,861.

Ohio, Kent—WILLIAM HUNT & SONS Co., Akron, at $11,555, awarded contract for trunk sewer.

Ohio, Mansfield—Carl Weiss, Peru, Ind., at $6,667, submitted low bid for trunk line sewer in District No. 1.

Ohio, Mansfield—Bids were received Oct. 22 for improving sanitary sewage disposal plant as follows: Ohio Valley Construction Co., $74,055; David Lowensohn, $79,218; L. Wideson, $81,080.

Ind., Muncie—Contract for sewer in Main St. from Lincoln St. to within 15-ft. of Macedonia Ave. and sewer in Seymour St. from Vine St. to within 20-ft. of Hackley St. awarded to WILLIAM M. BIRCH CO.

Ill., Chicago—Bids received Oct. 2 for Calumet-Sag channel for Sanitary District from James O. Heyworth, at $720,171 for Contract No. 13, A. Guthrie & Co., at $828,823 for Contract No. 14. Noted Oct. 7.

Wis., Appleton—Contract for Atlantic St. trunk sewer awarded to C. R. MEYER & SON CO., Oshkosh, at $20,252.

Wis., Appleton—Contract for segmental block sewer awarded to WEGENBURG & BLAKE, Appleton, at $29,915.

Wis., Fond du Lac—Contract for sewers in Washington, Morris, Ruggles, West Cotton and East St. awarded to A. KRUEGER, Fond du Lac. Noted Oct. 21.

Iowa, Algona—(Official)—Contract for sewers in various streets awarded to MOORE-SIEG CONSTRUCTION CO., Waterloo, at $17,416. Noted Sept. 30 and Oct. 14.

Iowa, Elliott—Contract for sanitary sewers awarded to WILLIAM S. DOLL, Omaha, Neb., at $5,744. Noted Oct. 14.

Iowa, Jefferson—Contract for laying tile and sewer pipe, catch basins, etc., awarded to DE LONG CONSTRUCTION CO., Terrill, at $55,206.

Iowa, Ogden—Contract for sewer system awarded to A. DOBSON CO., Lincoln, Neb., at $37,909.

Iowa, Ogden—ZITTEREL & SULLIVAN, Webster City, at $10,000, awarded contract for sewage disposal plant.

Kan., Atchison—Contract for sewer at State Soldiers' Orphans' Home awarded to INTER-MOUNTAIN BRIDGE CO., Tecumseh, Neb., at $5,986.

N. D., Grand Forks—(Official)—Contract for lateral sewer No. 16 and 17, District 5, awarded to GRAND FORKS CONCRETE CO., Grand Forks.

Mo. St., Joseph—Contract for sewers in District No. 27 awarded to E. F. MIGNERY.

Ark., Heber Springs—Contract for sewer system awarded to INLAND CONSTRUCTION CO., Chandler, Okla., at $33,000. Noted Sept. 2.

Tex., Beaumont—Contract awarded to H. W. CARDWELL CONSTRUCTION CO., Texarkana, at $21,717 for sanitary sewers.

Tex., Beeville—Contract for sewer system awarded to EUGENE CAMPBELL, Ft. Worth, 25,670 lin.ft. of pipe to SAN ANTONIO TEXAS CO. Estimated cost, $15,000.

Tex., Dallas—City Commissioners rejected all bids for sanitary sewer main between Zang's Blvd. and Winnetka Ave. in Oak Cliff.

Idaho, Idaho Falls—(Official)—Oren & Lindstrum, Butte, Mont., at $17,600, low bidder for 16,000-ft. of 8- 12- and 15-in. vitrified sanitary pipe sewers.

Utah, Ogden—Contract for sewer in District No. 128 awarded to J. P. O'NEIL CONSTRUCTION CO., at $5,740.

Wash., Seattle—D. Parisi Co., 1506 16th Ave., Seattle, at $9,531, submitted lowest bid for sewers in North and West 49th St.

Ore., Enterprise—Contract for lateral sewers awarded to JAMES KENNEDY, Portland, at $18,652. Noted Aug. 12.

Calif., Daly City—Contract for sewer work awarded to W. J. TOBIN, at about $5,000.

Calif., Sausalito—(Official)—Contract for sewer work in District F awarded to HEAFEY & TOBIN, 735 Filbert St., Oakland, at $11,026. Leonard R. Hohl, Town Engr. Noted Aug. 12.

Que., St. Agathe-des-Monts—(Official)—L. Beauchamp, at $12,500, submitted lowest bid for sewer system and sewage-disposal plant.

Man., The Narrows—See item under "Water Works."

GARBAGE

Proposed Work

Kan., Wichita—R. A. Branson contemplates building two-story, 25x60-ft. dessicating plant. Estimated cost, $10,000.

Neb., Lincoln—City contemplates $10,000 bond issue for garbage disposal plant.

Bids In and Contracts Awarded

Penn., Philadelphia—Morris L. Cooke, Dir. of Pub. Wks., received following bids for collection and disposal of garbage for 1916, District No. 1—A. J. A. Mullen, $39,700; District No. 1-B, James Irwin, $121,800; District No. 2, Edwin H. Vare, $255,000; District No. 3, Edwin H. Vare, $310,000; District No. 4-A, Howard D. Ruch, $125,000; District No. 4-B, Thomas L. Flannagan, $9,600; District No. 5, J. D. Dorney, $157,800; District No. 6, Estate of D. McMahon ,$157,900. Collection of rubbish and ashes as follows: District No. 1-A, James A. Mullen, $44,900; District No. 1-B, James Irwin, $55,800; District Nos. 2 and 3, Edwin H. Vare, $80,000 and $90,000, respectively; District No. 4-A, Frank Curran, $65,000; District No. 4-B, Thomas L. Flannagan, $77,800; District No. 5, Frank Curran, $63,780; District No. 6, Estate of D. McMahon, $97,850.

Ga., Augusta—Contract for garbage incinerator awarded to T. O. BROWN & SON. Estimated cost, $10,000.

Ohio, Akron—(Official)—Contract for removal of garbage to Akron garbage disposal plant awarded to CHARLES H. WATTERS, at $3.12 per ton. Noted Oct. 21.

Mich., Ishpeming—(Official)—Contract for garbage incinerator awarded to McGUIRE HUNTER INCINERATOR CO., at $8,885. Noted Oct. 14.

Wash., Seattle—Seattle Cedar Lumber Mfg., Ballard, awarded contract to SEATTLE BOILER WORKS for incinerator.

STREETS AND ROADS

Proposed Work

Mass., Boston—(Dorchester)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., until noon, Nov. 16, for asphalt or bitulithic pavement in Fernboro St. from Lawrence Ave. to Intervale St., Dorchester.

Mass., Boston—(Dorchester)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., until noon, Nov. 16, for asphalt or bitulithic pavement in Mendon Park from Upland Ave. to Bourneside St. and in Harwood St. from Willowwood to Lucerne St., Dorchester.

Mass., Boston—(West Roxbury)—(Official)—Bids will be received by E. F. Murphy, Comr. of Pub. Wks., until noon, Nov. 16, for asphalt or bitulithic pavement in Kittredge St. from Cornell to Beech St., West Roxbury.

Mass., Brighton—City plans to improve North Beacon St. between Cambridge and Market St. Estimated cost, $63,000.

R. I., Narragansett Pier—Town appropriated $5,000 for macadamizing South Pier Rd.

Conn., Manchester—Plans being considered for improving Main St. Estimated cost, $15,000.

N. Y., Buffalo—City plans to pave Evelyn Ave. and Galveston Pl. and repave East North St.

N. Y., New York—(Borough of Bronx)—(Official)—Bids will be received by Douglas Mathewson, Borough Pres., Municipal Bldg., Crotona Park, 177th St. and Third Ave., until 10:30 a.m., Nov. 16, for furnishing and delivering 2,500 cu.yd. of grits and repairing asphalt-block pavement and setting curb on various streets of the borough.

N. Y., New York—(Borough of Queens)—(Official)—Bids will be received by Maurice E. Connolly, Borough Pres., Borough Hall, Fifth St. and Jackson Ave., Long Island City, until 11 a.m., Nov. 18, for furnishing and delivering to Bureau of Highways 3,000 cu.yd. of broken stone and screenings of trap rock and improving a number of streets and avenues of the borough.

N. J., Bloomfield—Bids will be received by R. F. Davis, Town Clk., until 8 p.m., Nov. 15, for 12,000 lin.ft. of 5-in. by 16-in. bluestone curb and 6,000 lin.ft. combination curb and gutter.

Penn., Pittsburgh—City will pave Susquehanna St. and Neuman Way.

Del., Wilmington—Bids will be received by James Wilson, State Highway Comr., for Newcastle County, Church Bldg., until noon, Nov. 16, for improving Philadelphia Turnpike.

Md., Baltimore—Report submitted to Board of Estimate to improve Gwynn's Falls Parkway from Gwynn's Falls Park to Druid Hill Park estimating cost of same at $500,000. John H. Robinette, Pres., Bd. of Comrs.

Va., Jonesville—Bonds for $15,000 for road construction voted by citizens of Lee County, Rose Hill District.

Va., Richmond—Northwide Blvd. from Chamberlayne Ave. through Roland Park, Battery Court, North Richmond and Barton Heights, will be constructed by city.

W. Va., Charleston—Bids will be received for paving about 15 streets of the city with bituminous concrete. J. M. Clark, City Engr.

W. Va., Charleston—Bids will be received by L. C. Massey, Clk. of Kanawha County, until 11 a.m., Nov. 17, for 1½ miles of brick, macadam or concrete pavement in London and Pokla District.

S. C., Anderson—City will pave East Market and East Earl St. from McDuffie to Main St.

Ga., Atlanta—City plans to pave Grant Ave. from Georgia to Glenwood Ave. with wood block.

Fla., Eustis—Plans being prepared by Isham Randolph Co., Engr., Chicago, Ill., for clay base road with penetration and sand asphalt top. Estimated cost, $80,000.

Fla., Ft. Lauderdale—Election to vote on $165,000 bonds for roads contemplated by Broward County Commissioners.

Fla., Kissimmee—Election to vote on $250,000 bonds for road construction contemplated by Commissioners of Osceola County.

Fla., Pinellas Park—City plans to improve 33d St. from Sixth to 12th Ave., Park Blvd. from 39th to 22d St. and 22d St. Blvd. to north town limit by grading, curbing and paving. C. M. de Champ, Engr.

Fla., Wauchula—(Official)—Bids will be received by City Clerk until Dec. 6 for approximately 13 miles of sidewalks. Estimated cost from $20,000 to $30,000. Noted Oct. 21.

Fla., West Palm Beach—Sidewalks on Clematis, Rosemary, Olive, Banyan and Datura St. will be paved by city.

Miss., Pass Christian—Election will soon be held to vote on $100,000 bonds for paving, water works and city hall. X. A. Kramer, Magnolia, Engr.

La., Bunkie—Gravel road from Bunkie to Morrow, about 20 miles, contemplated. Bunkie Business League interested.

La., Franklin—Main St. will be improved at an estimated cost of $17,000.

Tenn., Livingston—Citizens defeated $160,000 bonds for road work. Noted Aug. 19 and Sept. 23.

Tenn., Lonsdale—(Knoxville post office)—Citizens voted $20,000 bonds for paving. Noted Oct. 7.

Ky., Lexington—See item under "Sewers."

Ohio, Cincinnati—Report submitted estimating cost of improving Warner St. from McMicken to Fairview Ave. at $6,000.

Ohio, Cincinnati—Bids will be received by Board of Commissioners of Hamilton County until noon, Nov. 19, for improving Summit Ave. from canal to Reading pike in Springfield and Sycamore Townships.

Ohio, Pomeroy—Bids will soon be received for paving Mechanic St. with brick, about ¼ of mile.

Ohio, Youngstown—Sidewalks will be constructed on Lennox Ave., Sheridan Rd. and Kent St.

Ohio, Zanesville—(Official)—Citizens defeated $22,250 bonds for paving. Noted Oct. 14 and 28.

Ind., Brasil—Bids will be received by W. O. Graeser, Audr., Comrs. of Clay County, until 10:30 a.m., Dec. 7, for two roads in Harrison Township.

Ind., Kentland—Bids will be received by S. R. Sizelove, Audr., Comrs. of Newton County, until 2 p.m., Dec. 6, for macadam road in McClellan Township.

Ind., New Albany—Bids will be received until 10 a.m., Nov. 24, by Commissioners of Floyd County, for road in New Albany Township.

Ind., Rensselaer—Bids will be received by J. P. Hammond, Audr., Comrs. of Jasper County, until 2 p.m., Dec. 7, for stone road in Walker Township.

Ind., Tipton—Bids will be received by Commissioners of Tipton County until Dec. 6 for constructing gravel roads in Madison and Cicero Townships.

Mich., Baldwin—City will hold election in April to vote on $10,000 bonds for road construction.

Mich., Flint—Bonds for $100,000 for road construction voted by Supervisors of Genessee County.

Mich., Marshall—Bonds for $124,000 appropriated by County Commissioners for road construction.

Mich., Mason—Appropriation of $115,000 for road construction made by County Supervisors.

Ill., Quincy—Bids will soon be received for paving 14th St. from Broadway to State St. F. L. Hancock, City Hall, Engr.

Kan., Larned—Plans being prepared by Black & Veatch, Engrs., Kansas City, Mo., for 25 blocks of vitrified fiber brick pavement on concrete base. L. E. Burgess, City Clk. Noted Sept. 23.

Kan., Ottawa—An ordinance passed to pave a portion of First St. with brick on concrete base.

Neb., Grand Island—Citizens plan to pave several portions of Paving District No. 17.

Neb., Lincoln—Bids will be received by H. E. Wells, Clk., Lancaster County, until Nov. 15, for construction of paving District No. 9. Noted Oct. 7.

Mo., Higginsville—(Official)—We have been informed that city will not pave any streets this year as stated in our issue of Oct. 28.

Mo., Sedalia—Bids will be received by F. T. Leaming, City Engr., until Dec. 6, for 9,200 sq.yd. of vertical fiber brick paving. Noted Oct. 21.

Ark., Marshall—Construction of 14 miles of road in mining district contemplated by Searcy County Improvement District.

Tex., Austin—Bids will be received by P. W. Powell, Comr. of Sts., until Nov. 19, for paving a number of streets and constructing storm sewers. Estimated cost, $330,640.

Tex., Batesville—Bonds for $15,000 will be sold for road improvements in Zavalla County. Noted Oct. 21 and 28.

Tex., El Paso—City plans to pave Prospect St. from Upson Ave. to West Blvd. Estimated cost, $15,430.

Okla., Bristow—Election will be held Nov. 16 to vote on $25,000 bonds for good roads.

Okla., Catoosa—Election will soon be held to vote on $18,000 bonds for road construction.

Okla., Chelsea—Election will soon be held to vote on $50,000 bonds for road construction.

Okla., Claremore—Election will be held in Oowala Township to vote on $30,000 bonds for constructing roads.

Okla., Collinsville—Election will soon be held to vote on $30,000 bonds for constructing roads.

Okla., Foyil—Citizens plan to hold election to vote on $25,000 bonds for road construction.

Okla., Idabel—Election will be held Nov. 13 to vote on $24,000 bonds for roads in Sulphur Township.

Okla., Muskogee—Bids will be received about Dec. 1 for road improvements in Muskogee County. Estimated cost, $10,000. J. P. Clonts, County Engr.

Okla., Oologah—Citizens will hold election to vote on $20,000 bonds for road construction.

Okla., Sapulpa—Election will soon be held in Creek County, Newby Township, to vote on $20,000 bonds for roads.

Okla., Talala—Election will soon be held to vote on $20,000 bonds for constructing roads.

Okla., Tulsa—City will pave 15th St. from Hudson to Robinson Ave., 14th St. from Broadway to Stiles Ave., Harvey Ave. from 14th to 15th St. and alley east of University Station.

Okla., Verdigris—Citizens will vote on $50,000 bonds for road construction.

Colo., Denver—Contract will soon be awarded for paving alley 41 in Park Hill. Estimated cost, $12,068.

Colo., Denver—Contract will be awarded some time next year for 300,000 sq.yd. of smelter slag surfacing. Estimated cost, $125,000.

Colo., Denver—State Highway Commission and Department of Parks contemplate one mile of paved road on West Colfax Ave. from city limits in direction of mountain Park system.

Colo., Denver—Commissioner of Improvements is considering estimates for 20,000 yd. of asphaltic concrete pavement on a 5-in. concrete base for West Colfax Ave. from Zuni St. west across Platte River to Irving St.

Colo., Estes Park—Residents have asked Congress for an appropriation of $125,000 for development of roads and trails in Rocky Mountain National Park.

Idaho, Cottonwood—(Official)—Citizens defeated bonds for paving main business streets of city. E. L. Parker, Chn., Bd. of Trustees. Noted Sept. 9 and 30.

Ariz., Globe—Election will be held Nov. 15 in Gila County to vote on $100,000 bonds for roads.

Ariz., Nogales—(Official)—Citizens voted $150,000 bonds for highways in Santa Cruz County. Noted Oct. 7.

Ariz., Tucson—Citizens voted $400,000 bonds for roads. Noted Sept. 30.

Calif., Fresno—City Trustees plan to pave Ventura Ave.

Calif., Los Angeles—City plans to pave Ord St. from North Broadway to Castelar St.

Calif., San Francisco—Board of Works plans to pave 20th Ave. and Noe St. Estimated cost, $21,445.

Calif., San Gabriel—Bids will be received by I. H. Stouffer, City Clk., until Nov. 16, for improving a portion of Las Tunas Drive.

Ont., Kingston—Bids will soon be received by City Council for paving University Ave. W. W. Sands, Clk.

Ont., Pembroke—Town Council contemplates construction of macadam roadway. Estimated cost, $4,000.

Ont., Sudbury—Town Council plans an expenditure of $4,000 for sidewalks. W. J. Ross, Clk.

Bids In and Contracts Awarded

Mass., Boston—Bids were received Oct. 29 for paving Jones Ave. as follows: James Doherty, 133 Calumet St., Roxbury, asphalt, $8,631, bitulithic, $8,659; C. J. Jacobs Co., 107 Terrace St., Roxbury, asphalt, $8,822, bitulithic, $8,650; Central Construction Co., 6 Beacon St., Boston, asphalt, $8,914.

Conn., North Haven—Contract for 20,800 yd. of bituminous concrete pavement awarded to UNION PAVING CO. and LANE CO.

N. Y., Albany—(Official)—Contracts awarded for constructing highways by State Aid as follows: Road No. 1279, Albany County, 3.41 miles: Award held; Road No. 5,532, Allegany County, 5.25 miles: KENNEDY CONSTRUCTION CO., Albany, $50,881; Road No. 1327, Cayuga County, 6.06 miles: JOHN H. GORDON, Albany, $52,011; Road No. 5594, Clinton County, 3.79 miles: BLUFF POINT STONE CO. INC., Plattsburg, $29,160; Road No. 1331, Columbia County, 4.27 miles: RUSSO-PARKER CONSTRUCTION CO., Hudson, $39,756; Road No. 1332, Columbia County, 7.77 miles: MARKS KEARNEY, Hudson, $62,186; Road No. 5595, Cortland County, 3.65 miles: T. H. GILL CO., Binghamton, $39,759; Road No. 133, Erie County, 0.14 mile: Award held; Road No. 1334, Erie County, 4.30 miles: LANGAN CONSTRUCTION CO., Albany, $70,049; Road No. 3135, Erie County, 4.50 miles: Award held; Road No. 1336, Erie County, 5.19 miles: Award held; Road No. 5582, Genesee County, 4.53 miles: CHILSON & GIBSON, Leroy, $44,893; Road No. 5593, Livingston County, 7.69 miles: JAMES ANDERSON, Albany, $63,063; Road No. 1110, Madison County, 3.05 miles: MOHAWK ENGINEERING CO., Mohawk, $26,151; Road No. 1328, Monroe County, 0.73 mile: WHITMORE-RAUBER & VICINIUS, Rochester, $12,927; Road No. 1327, Monroe County, 2.91 miles: RIBSTINE-HOLTER CO. INC., Rochester, $35,548; Road No. 5547, Oneida County, 0.70 mile: LANGAN CONSTRUCTION CO., Albany, $17,187; Road No. 5247-A, Onondaga County, 0.18 mile: M. J. GLEASON & CO., Syracuse, $2175; Road No. 448, Orange County, 3.64 miles: ARMSTRONG & TROWBRIDGE, Middletown, $29,368; Road No. 449, Orange County, 3.17 miles: ARMSTRONG & TROWBRIDGE, Middletown, $21,399; Road No. 1329, Orange County, 3.70 miles: Award held; Road No. 5591, Orange County, 0.38 mile: SCHUNNEMUNK CONSTRUCTION CO., Highland Mills, $3072; Road No. 5545, Schenectady County, 5.62 miles: Award held; Road No. 5589, Seneca County, 5.01 miles: GREENFIELD CONSTRUCTION CO., Hornell, $43,719; Road No. 5510-A, Sullivan County, 0.43 mile: HENRY McNAMEE, Eddyville, $7,947; Road No. 1079, Tioga County, 4.07 miles: PETER F. CONNOLLY CO., Horseheads, $30,603; Road No. 1330, Tompkins County, 2.48 miles: GREENFILE CONSTRUCTION CO., Hornell, $26,447; Road No. 603, Ulster County, 10.24 miles: ARMSTRONG & TROWBRIDGE, Middletown, $82,935. Noted Oct. 14 and Nov. 4.

N. Y., Buffalo—Contract for paving Skillen St. awarded to HENRY P. BURGARD CO., at $10,875.

N. Y., Middletown—Contract for paving Mill St. awarded to ABNER M. HARPER CO., Newburgh, at $4,100.

N. Y., New York—(Borough of Brooklyn)—(Official)—Contracts for regulating and repaving Bridge St. from Sands to Nassau St., awarded to CHARLES A. MYERS CONTRACTING CO., at $6,804; regulating, grading, curbing and laying sidewalks on Ditmas Ave. to M. F. MAHER, at $9,932. Noted Oct. 21.

N. Y., New York—(Borough of Manhattan)—(Official)—Contracts for paving awarded as follows: Arden St. to ASPHALT CONSTRUCTION CO., Madison Ave. and 137th St., New York, at $5,934; 161st St. to AZTEC ASPHALT CO., 90 West St., New York, at $6,264; Front St., to W. J. FITZGERALD, 547 West 45th St., at $34,838. Noted Oct. 21.

N. Y., New York—(Borough of Manhattan)—(Official)—Lowest bids received Nov. 5 for regulating and repaving (a) West side of Broadway from curb to rail from north side of 108th St. to north side of 110th St., (b) Sixth Ave. from Eighth Ave. to 19th St., Greenwich Ave. from Sixth Ave. to north of Perry St., West 10th St. from Greenwich to Sixth Ave., (c) 25th St. from Sixth to Seventh Ave., (d) 72d St. from Central Park West to Columbus Ave., (e) 78th St. from First to Third Ave., of 95th and 96th St. from Broadway to Amsterdam Ave. were as follows: (a) Asphalt Construction Co., Madison Ave. and 137th St., $5,189; (b) Aztec Asphalt Co., 90 West St., $52,151; (c) Sicilian Asphalt Paving Co., 41 Park Row, $5,277; (d) Aztec Asphalt Co., $10,655; (e) Sicilian Asphalt Paving Co., $11,060; (f) Barber Asphalt Paving Co., Woolworth Bldg., $6,439. Noted Oct. 28.

N. J., New Brunswick—Contract for improving Amboy Rd. from city line at Spa Springs to Myrtle Ave. awarded to THOMAS F. DUNIGAN, Woodbridge, at $29,148. Noted Nov. 4.

N. J., New Brunswick—Contract for 10,000 sq.yd. of applanite pavement on Raritan Ave. awarded to FRANKLIN CONSTRUCTION CO., New York, N. Y.

N. J., Plainfield—(Official)—Bids were received Nov. 1 by Common Council for improving Sherman and Fillmore Ave. and East Fourth St. from Burke & Bonham, at $4,037 and Mobus Bros., at $4,142.

Penn., Greensburg—Contract for Scottdale-Tyrone Mills Rd. awarded to SAMUEL HOLMES, Scottdale, at $19,958. Noted Oct. 7.

Penn., Greensburg—Bids were received Oct. 28 for Jeanette-Grapeville Rd. as follows: L. Edwards, Greensburg, $21,123; McCrady Bros., Braddock, $21,601; Ridge Bros., Pittsburgh, $22,071. Noted Oct. 7.

Penn., Philadelphia—UNION PAVING CO., 112 North Broad St., awarded contract for paving Jasper St. at $16,978.

Penn., Pittsburgh—(Official)—Contracts for paving awarded as follows: Clinton and Frankfort Rd. to D. W. CHALLIS & SONS, at $34,667; Beatty Rd. to R. H. CUNNINGHAM & SONS, INC., at $48,736. Noted Oct. 28.

Md., Baltimore—Contract for paving State, Trenton and Mace St. and Breindenbaugh and Stable Alley awarded to GEORGE LONG CONTRACTING CO., at $6,438.

Md., Baltimore—Contract for paving portions of Balderson, Water, Grant and Mercer St. awarded to BALTIMORE ASPHALT BLOCK AND TILE CO., at $5,231. Noted Oct. 14.

Md., Baltimore—Contract for grading main and upper portions of Ellicott Driveway awarded to F. B. BEASMAN CO., 7 Clay St., Baltimore, at $21,015. Noted Oct. 7 and 14.

N. C., Gastonia—Contract for 50,000 sq.yd. asphalt paving awarded to NOLL CONSTRUCTION CO., Chattanooga, Tenn.

Fla., Ft. Pierce — Contract for hardsurfacing Fellsmere-Sebastian Rd. awarded to H. R. SLOANE, Sebastian Rd., at about $6,000. Noted Oct. 28.

Ohio, Findlay—(Official)—C. B. Hall & Son, Findlay, at $5,495, submitted lowest bid for paving East Sandusky St. with brick.

Ohio, Independence—(Official)—Contract will be awarded about Nov. 27 for sidewalks on Brecksville Rd. Bonds for $9,500 sold for this purpose. Noted Oct. 14.

Ind., Evansville—(Official)—Contract for macadam road in Pigeon Township awarded to TRAYLOR & KREMPP, Jasper, at $7,848. Noted Oct. 28.

Ind., Fowler—(Official) — Contract for road in Balboa Township awarded to A. E. GRAY, Goodland, at $8,967. Noted Oct. 28.

Ind., Greencastle—(Official)—Contract for macadam road in Greencastle Township awarded to EARL HURST, Cloverdale, at $13,000. Noted Oct. 28.

Ind., Logansport—(Official)—Contract for paving awarded to ANDREWS ASPHALT PAVING CO., Hamilton, Ohio, at $100,228. Noted Sept. 16 and 30.

Ind., Plymouth—(Official)—Contract for three roads in German Township awarded to FRANK BALLINGE, Donaldson, at $10,660. Noted Oct. 28.

Ind., Shelbyville—(Official)—Contract for two roads in Washington Township awarded to HARVEY OLDMAN, Edenburg, at $5,570, and MOBERLY & CO., Shelbyville, at $3,148. Noted Oct. 28.

Ind., South Bend—Contract for paving Leeper Ave. from Howard to Angella Ave. awarded to HARRY N. BARNES, at $12,437.

Ill., Joliet—Contract for paving Jefferson St. between Eastern Ave. and Herkimer St. with bituminous macadam awarded to R. F. CONWAY CO., 133 West Washington St., Chicago.

Wis., Tomah—Contract for vitrified brick paving awarded to GEORGE R. KEACHIE CO., Madison, at about $15,000. Noted Oct. 14.

Kan., Columbus—(Official)—Contract for grading and surfacing with gravel seven miles of county road between Columbus and Crestline awarded to W. HUNTSINGER, Columbus, at about $6,000. Noted Oct. 21.

Kan., Independence — Contract for paving awarded to GREEN & CULLEN, at $33,422.

Mo., Kansas City—Contract for grading a portion of Meyer Blvd. awarded to McMILLAN CONSTRUCTION CO., Chicago, Ill., at $86,000. Noted Sept. 6 and Oct. 14.

Mo., St. Louis—Contract for improving Marcus Ave. awarded to SHRAINKA CONSTRUCTION CO., at $7,684.

Tex., Beaumont — Contract for paving various streets awarded to UVALDE ROCK ASPHALT CO., Beaumont, Tex. Estimated cost, $275,000.

Tex., Bryan—Contract for road construction in District No. 1 awarded to ALNEY AND McCORMICK, Houston. Estimated cost, $20,000.

Tex., Dallas—Contract for paving awarded to LEVY & LEVY, Muskogee, Okla., at about $50,000.

Tex., Houston—Contract for paving Creston Ave. awarded to EUREKA PAVING CO., Houston, at $6,000.

Colo., Denver—Contract for paving alley 36 awarded to A. F. HEWITT, at $12,859.

Colo., Denver—Contract for paving alley 37 in Country Club District awarded to G. W. STARK, at $13,802.

Utah, Salt Lake City—P. J. MORAN, 152 North Second St., at $15,860, awarded contract for paving.

Wash., Bremerton—Contract for concrete walks and permanent gutters on Burwell Ave. awarded to L. L. KENT, at $6,356.

Wash., Colville—(Official)—Contract for improving three miles of Springdale-Hunters Permanent Highway No. 2-A awarded to SPOKANE ASPHALT MACADAM AND PAVING CO., Spokane, at $10,000. Noted Oct. 21.

Wash., Everett—Contract for improving Harrison Ave. awarded to ERVIG & HAUGH, Everett, at $7,951.

Wash., Pomeroy—(Official)—Contract for improving portion of Permanent Highway No. 1 awarded to TRIBOU & BLACKMAN, Walla Walla, at $9,249. Noted Oct. 21.

Wash., Stevenson—(Official)—Contract for nine miles of Stevenson-Carson Rd. awarded to J. M. AMBROSE, 22-23 Bates Dock Bldg., Portland, Ore., at $48,000. Noted Sept. 23 and Oct. 21.

Calif., Riverside—Bids were received for 11 miles of roadway on Route No. 18 as follows: B. R. Davison Construction Co., Monrovia, concrete, $45,096; macadam, $52,825; Johnson-Shea Co., Riverside, concrete, $42,489; macadam, $56,889.

Calif., Riverside—Contract for 10 miles of Moreno Rd. awarded to CONNER CONSTRUCTION CO., at $61,825.

Calif., San José—(Official)—Contract for improving Lincoln Ave. in Supervisorial District No. 4 awarded to RAISCH IMPROVEMENT CO., Crocker Bldg., San Francisco, at $14,340. Noted Oct. 21.

Calif., Santa Barbara—(Official)—Contract for paving Booths Point Rd. awarded to F. R. RITCHIE & CO., San Francisco, at $15,475. Noted Oct. 7.

INDUSTRIAL WORKS

Proposed Work

Conn., Hartford—Swift & Co. contemplates building three-story addition to refrigerating plant. Estimated cost, $[illegible],000.

Conn., Waterbury—Waterbury Tool Co. will build one-story, 220x212-ft. machine shop in Browns Meadow.

N. Y., Albany—Plans being prepared for one-story, 125x200-ft. addition to factory of Modern Machine and Tool [illegible].

N. Y., New York—(Borough of Brooklyn)—Plans prepared for three-story, 200x320-ft. factory at 43d St. and First Ave., for E. W. Bliss Co. Estimated cost, $175,000.

N. Y., New York—(Borough of Brooklyn)—Plans prepared for two-story, 110x200-ft. brick machine shop on 23rd St. for Empire Repair and Electric Welding Co., 42 Whitehall St., New York.

N. Y., New York—(Borough of Brooklyn)—(Official)—Linde Air Products Co., 30 East 42d St., plans one-story, 72x100-ft. brick factory at Driggs Ave. Estimated cost, $16,500.

N. Y., New York—(Borough of Manhattan)—(Official)—Plans being prepared by Francisco Jacobus, Arch., 200 Fifth Ave., for eight-story 98x100-ft. factory at 25th St. and Tenth Ave., for Marginal Realty Co. Estimated cost, $150,000.

N. Y., New York—(Borough of Manhattan)—(Official)—J. B. Snooks' Sons, Arch., 261 Broadway, preparing plans for 10-story, cold storage plant at 10th Ave., Marginal, 16th and 17th St., for Merchants Refrigerating Co., 7 Harrison St. Estimated cost, $1,000,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Plans being prepared by J. S. Maher, Arch., 431 West 14th St., for alteration to factory of Miller Estate. Estimated cost, $25,000.

N. Y., Poughkeepsie—Plans being prepared for four-story, 75x350-ft. factory for Victor Typewriter Co. John J. Petit, 103 Park Ave., N. Y., Arch.

N. Y., Troy—(Official)—Westinghouse, Church, Kerr & Co., Arch., N. Y., preparing plans for eight-story, 70x100-ft. factory for Cluett Peabody Co., Inc. Estimated cost, $2,000,000. Noted Oct. 28.

N. Y., Utica—Heron Mfg. Co. contemplates two-story addition to plant. Estimated cost, $100,000.

N. J., Newark—Plans being prepared for five-story factory on High St. for Splitdorf Electrical Co., 98 Warren St.

Penn., McKeesport—American Sheet Steel Co. will enlarge W. Dewees wood plant. Estimated cost between $125,000 and $150,000.

Penn., McKeesport—McKeesport Tinplate Co. will build addition to plant.

Penn., New Kensington—Plans being prepared by W. G. Wilkins Co., Westinghouse Bldg., Pittsburgh, for brick and steel factory for National Lead and Oil Co. Estimated cost, $100,000.

Penn., Philadelphia—(Official)—Bids will be received about Dec. 1 for four-story, 54x100-ft. factory for M. Rice & Co. Noted Nov. 4.

Penn., Philadelphia—Plans prepared by William Steele & Sons Co., 16th St. and Archer St., for five-story, 16x243-ft. reinforced-concrete building at Westmoreland and Masther St. for Philadelphia Tapestry Mills. Estimated cost, $120,000.

Penn., Pittsburgh—Plans being prepared by V. Wyss-Thalman, Arch., 5113 Jenkins Arcade, for two-story, 84x136-ft. warehouse for Liquid Fuel Combustion Co. Noted Sept. 30.

Md., Baltimore—Baltimore Car and Foundry Co., Curtis Bay, Md., will build 273x1,200-ft. addition. Estimated cost, $500,000.

W. Va., Huntington—Huntington Tobacco Warehouse Co. will build 160x160-ft. wood and concrete warehouse.

W. Va., Moundsville—U. S. Stamping Co., Wheeling, contemplates building addition to plant at Moundsville.

W. Va., Wheeling—LaBelle Iron Works will build coke plant. Estimated cost, $2,000,000.

Ga., Gainesville—H. Clark, Bowersville, contemplates knitting mill. Estimated cost, $25,000.

Ala., Birmingham—Harris Transfer and Warehouse Co. contemplates building five-story reinforced-concrete warehouse. Estimated cost, $50,000.

Ky., Ashland—Norton Iron Works estimates cost of proposed bi-product plant between $200,000 and $500,000. Noted Oct. 28.

Ky., Owensboro—Hull Pump and Tank Co. contemplates building plant.

Ohio, Canton—The Universal Mfg. Co. will build a plant. Frederick G. Grant is interested.

Ohio, Cincinnati—(Hyde Park)—Hyde Park Lumber Co. will build brick warehouse. Estimated cost $10,000.

Ohio, Cincinnati—Joseph G. Steinkamp & Bros., Arch., preparing plans for garage at Fifth St. and Sycamore St. for Frank Fox. Estimated cost, $40,000.

Ohio, Cleveland—Plans prepared by Multon & TaTylor, Hippodrome Bldg., for eight story, 211x330-ft. and 71x222-ft. warehouse for Home Financing Co. Estimated cost, $500,000.

Ohio, Cleveland—American Steel and Wire Co. will build addition.

Ohio, Dayton—Plans being prepared for addition to plant of Maxwell Motor Car Co.

Ohio, Dayton—Plans being prepared by Thies & Thies, Davis Bldg., for three story brick and steel addition to plant of Ohio Metal Products Co., 39 Edgar St.

Ohio, East Liverpool—National Drawn Steel Co. contemplates building addition to plant.

Ind., Brazil—Plans prepared for addition to plant of Wood Turret Machine Co.

Ind., La Fayette—A. J. Fogarty, Michigan City, interested in building of twine factory. Estimated cost, $35,000.

Ill., Chicago—J. Ogden Armour purchased site in Broad St. and will build garage.

Ill., Chicago—Cadillac Automobile Co., 2301 South Michigan Ave., purchased site at Indiana Ave. and 23d St. and will build eight-story building. Estimated cost, $200,000.

Ill., Chicago—Plans prepared by Postle & Fisher, Arch., 140 South Dearborn St., for one-story, 209x480-ft. factory at 2000 South Jefferson St., for Western Shade Cloth Co. Estimated cost, $75,000. Noted Oct. 21.

Ill., Springfield—Western Cartridge Co., East Alton, Ill., will build plant at Springfield.

Wis., Madison—Co-Operative Packing Co. will build packing plant. Estimated cost, $200,000.

Wis., Manitowoc—Plans being prepared by Earl F. Miller, Arch., Dempsey Bldg., for 55x300-ft., five-story, brick and steel factory for Aluminum Goods Manufacturing Co.

Wis., Milwaukee—Schlitz Candy Co. will build factory. Leonard Schlitz interested.

Wis., New Richmond—Intercounty Packing Co. contemplates building plant. Estimated cost, $100,000. T. J. Davis, Pres.

Minn., Minneapolis—Maples Steel and Machine Co. will build one-story, 140x365-ft. factory. Estimated cost, $60,000.

Minn., Minneapolis—Western States Coke Co. plans factory at Marshall St. and Northern Pacific right-of-way.

Minn., Minneapolis—Janney, Semple Hill & Co., First Ave. S. and Second Ave., will build addition to warehouse on First St. and Third Ave. Estimated cost, $200,000.

Minn., Minneapolis—Kronick Cleaning Co., 1213 Hennepin Ave., will build two-story reinforced-concrete store and dry cleaning building. Estimated cost, $45,000.

Minn., Minneapolis—Minnesota Motor Car Co. contemplates building two-story reinforced-concrete building and one-story, 10x142-ft. garage. Estimated cost, $50,000.

Minn., Minneapolis—Minneapolis Steel and Machinery Co., 29th and Minnehaha St., will build one-story, 140x356-ft. factory at 2906 Minnehaha St. Estimated cost, $60,000.

Minn., St. Paul—Contract will soon be awarded for ten-story, 48x150-ft. concrete terminal elevator for Equity Co-Operative Exchange. Plans prepared by Foltz Engineering Co., 1410 Pioneer Bldg., Arch. Estimated cost, $125,000. Noted Sept. 30.

Minn., St. Peter—St. Peter Woolen Mills will build factory. Estimated cost, $10,000. J. C. Brinkler interested.

Kan., Argentine—Plans being prepared for addition to car repair shed for Atchison, Topeka & Santa Fé Railway. Estimated cost, $45,000.

Kan., Wichita—Rumley Products Co. plans two-story, 100x120-ft. warehouse. Estimated cost, $30,000.

Mont., Butte—Roberts Cereal Mill Co. will build flour and feed mill at Butte. A. G. Roberts interested.

Mont., Helena—T. C. Power Co. will build 42x48x55-ft. seed cleaning plant and grain elevator.

Mo., Kansas City—Plans being prepared for bakery for Nafziger Baking Co. Estimated cost, $40,000.

Mo., St. Louis—J. Johansen will build three-story machine shop and garage.

Utah, Salt Lake City—Plans prepared by F. C. Barnes for garage at Main St. Estimated cost, $10,000.

Wash., Leavenworth—Rothert Process Steel Co. purchased site at Leavenworth and will build plant.

Ore., The Dalles—Dri Fresh Co. plans two-story, 75x150-ft. addition.

Alaska, Seward—F. T. Frank, Cordova, will build cement plant. Estimated cost, $100,000.

Bids In and Contracts Awarded

Mass., Malden—Parks-Osgood Co. awarded contract to WILLIAM M. BAILEY, 88 Broad St., Boston, for one-story garage. Estimated cost, $20,000.

Mass., Palmer—Armour & Co. awarded contract to FLYNT BUILDING AND CONSTRUCTION CO., Palmer, for three-story brick and reinforced-concrete plant. Estimated cost, $35,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for mason work for one-story, 75x100-ft. brick and steel ice storage plant for Ice Mfg. Co., 1480 Broadway, awarded to GEORGE H. McENTEE. Noted Oct. 28.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to ROSEN CONSTRUCTION CO., 3099 Stagg St., for three-story, 49x100-ft. garage at 440 E. 11th Ave., for N. Y. Herald.

N. Y., Rhinebeck—(Official)—Contract awarded to ROBERT S. POLLOCK, 110 East 28th St., for dairy buildings for Vincent Astor, 23 West 26th St. Estimated cost, $100,000. Noted Sept. 23.

N. Y., Rochester—(Official)—Eastman Kodak Co. awarded contract for two-story, 45x140-ft. and five-story, 80x165-ft. additions to plant to ALEXANDER, SHUMWAY & UTZ, Rochester. Noted Oct. 28.

N. J., Jersey City—Contract awarded to JOHN M. FERGUSON, Paterson, at $80,000, for three-story reinforced-concrete factory at Baldwin Ave. and High St. for Durham Duplex Razor Co.

N. J., Phillipsburg—Cannister Co. awarded contract for factory to BUTZ CLADER & CO., Allentown, N. J. Estimated cost, $50,000.

Penn., Philadelphia—Contract for 100x200-ft. reinforced-concrete grain elevator addition at Schuylkill Ave. for Pennsylvania R.R. awarded to JAMES STEWART & CO., Chicago, Ill. Estimated cost, $200,000.

Penn., Philadelphia—Louis Walther Mfg. Co. awarded contract for three-story, reinforced-concrete factory at Torresdale Ave. and N St. to M. WARD EASBY, Crozer Bldg., at $56,000. Noted Oct. 7.

Penn., Pittsburgh—Pittsburgh & Lake Erie R.R. Co. awarded contract to JAMES L. STUART for six-story warehouse at Smithfield St. Estimated cost, $1,000,000.

Del., Wilmington—William Freihofer Baking Co. awarded contract for bakery to PHILIP HAIBACH CONSTRUCTION CO. Estimated cost, $100,000. Noted Sept. 30.

D. C., Washington—Washington Steel and Ordnance Co. awarded contract to BLAW STEEL CONSTRUCTION CO., Pittsburgh, Penn., for 126x165-ft. addition to forge shop.

Ohio, Oakley—(Cincinnati post office)—Cincinnati Ball Crank Co. awarded contract to ADAM KOENIG, for excavation and masonry work, L. SCHREIBER & SONS CO., for iron work, for one-story, 100x276-ft. factory.

Ohio, Youngstown—Brier Hill Steel Co. awarded contract to LACKAWANNA BRIDGE CO., Buffalo, N. Y., for two open-hearth steel furnaces. Noted Nov. 4.

Ind., Evansville—(Official)—Contract for five-story, 50x150-ft. factory for Anchor Supply Co. awarded to KOCH & GRIESBACHER. Noted Oct. 14.

Ind., Jasper—Jasper Mfg. Co. awarded contract for factory to SCHMIDT & RENNER, Jasper, at $14,774. Noted Oct. 14.

Ill., Dixon—State Colony for Epileptics awarded contract for cold storage, laundry and bakery building to A. B. KRAUEL, Danville, at $73,000.

Minn., Red Wing—Busch & Boxrud awarded contract to W. J. LONGCOR, Red Wing, for garage. Estimated cost, $25,000.

Ark., Foreman—(Official)—Consumers Portland Cement Co., 1405 Lumber Exchange Bldg., La Salle and Madison St., Chicago, Ill., awarded contract to FULLER ENGINEERING CO., Allentown, Penn., for building plant.

Wash., Seattle—Bids were received Oct. 20 by Port of Seattle Commission for four-story addition to warehouse on Whatcom Ave. from Harry Brandt Construction Co., at $60,500, Hans Pederson, $68,684, W. T. Butler, $67,500. Noted Oct. 14.

FEDERAL GOVERNMENT WORK

Proposed Work

Md., Indian Head—Extension to Pulping and Poaching House—Bids will be received by H. R. Stanford, Ch. of Bureaus of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 27, for extension to pulping and poaching house, Naval Proving Ground, Indian Head.

D. C., Washington—Heating Plant—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., until 10 a.m., Nov. 17, for central heating, lighting and power plant at Washington, D. C.

Fla., Pensacola—Paving—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Dec. 4, for concrete pavement at navy aëronautic station, Pensacola.

Tenn., Humboldt—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 20, for U. S. post office at Humboldt.

Ky., Louisville—Lock Bridges—Bids will be received at U. S. Engineer Office until Dec. 6 for swing bridge over locks of Louisville and Portland Canal.

Ohio, Middletown—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 18, for U. S. post office at Middletown.

Mich., Sault. Ste. Marie—Timber—Bids will be received at U. S. Engineer Office, 337 Federal Bldg., Detroit, until noon, Dec. 15, for furnishing and delivering about 110,000-ft. B. M. of white oak timber. (See adv.)

Mo., Jefferson City—Elevator—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 29, for new hoist way and electric freight elevator, etc., in U. S. courthouse and post office, Jefferson City.

Colo., Denver—Machinery—Bids will be received by U. S. Reclamation Service, Denver, until Nov. 16, for furnishing excavating machinery for Yuma Project, Arizona.

Calif., San Francisco—Dry-dock—Secretary of Navy, Washington, D. C., approved plans of Union Iron Works for dry dock at Hunters Point.

Hawaii, Pearl Harbor—Buildings—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Dec. 4, for three buildings at naval station, Pearl Harbor.

P. I., Cavite—Buildings—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Jan. 4, for five buildings at naval station, Cavite.

Bids In and Contracts Awarded

Md., Indian Head—Tank and Tower—Bids were received Oct. 30 for 250,000-gal. steel water tank and tower at Naval Proving Ground, Indian Head, as follows: Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Penn., $10,184; York Bridge and Construction Co., Curry Bldg., York, Penn., $10,980; Memphis Steel Construction Co., Greensburg, Penn., $11,228. Noted Oct. 14.

Penn., Harrisburg—Post Office—H. L. Brown & Co., Mt. Vernon, N. Y., at $113,405, submitted lowest bid for additions and alterations to U. S. post office. Noted Aug. 26 and Oct. 7.

Ohio, Logan—Post Office—Contract for U. S. post office at Logan awarded to A. W. LANE, 19 South La Salle St., Chicago, Ill., at $42,820. Noted Sept. 9 and Oct. 21.

Wis., Merrill—Post Office—Bids were received Nov. 1 for post office at Merrill, (a) limestone, (b) sandstone, as follows: James Devault, Canton, Ohio, (a) $59,700, (b) $60,900;

John Lauritzen, Fergus Falls, Minn., (a) $53,900; Ca'lahan-Mandl Co., 814 Reaper Blk., Chicago, Ill., (a) $58,700; (b) $60,000. Noted Sept. 30.

Mont., St. Ignatius—Excavation—Contract for Mission lateral H and sub-laterals, Flathead irrigation project, awarded to WILSON BROS., Polson, at $16,423. Noted Sept. 30.

Okla., Tulsa—Mechanical Equipment—Contract awarded to FARWELL HEATING AND ENGINEERING CO., Joplin, Mo., at $25,667, for mechanical equipment for U. S. post office and court house. Noted Sept. 2.

Okla., Tulsa—Post Office—Contract for U. S. post office and court house awarded to M. YEAGER & SON, Danville, Ill., at $184,856. Noted Oct. 7.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Mass., South Hyannis—Dredging—State appropriated $10,000 for dredging Lewis Bay between Egg Island and Dumbars Point.

Md. Hagerstown—Canal Improvements—Canal Towage Co. will improve Chesapeake & Ohio Canal, including concrete lock at Dam No. 6.

Fla., Arcadia—Ditch—Bids will be received until Nov. 15 by County Commissioners for drains, canals and ditches for Arcadia Drainage District in DeSoto County. Noted Oct. 7.

Fla., Bradentown—(Official)—Drainage—Bids will be received until Nov. 15 for purchase of $130,000 bonds for drainage. C. A. Tilton, Clk. of Bd. of County Comn. (See adv.)

Mich., Saginaw—Drainage—Saginaw County Supervisor contemplates draining land located by Spaulding, James, Swan Creek, Albee St., Charles and Plymouth Townships.

Ill., Chicago—Drainage—Drainage Board will issue $2,000,000 for widening river south of Van Buren St. and for diverting sewage in Calumet District.

Ill., Chicago—Canal—City plans 8-ft. canal to connect Chicago with Mississippi River and cheap water transportation with Gulf of Mexico and Pacific Coast.

Wis., Chilton—Drainage—Citizens contemplate establishing drainage district to drain land in Zimmerman Swamp and Saukville.

Minn., Bemidji—Ditches—A. Stanton, Judge County Court, plans Ditches Nos. 34 and 36, in Hamre and Steenerson Townships and in unorganized townships. Estimated cost, $283,882.

Minn., Duluth—Ditch—Contract will soon be awarded for Ditch No. 5 by County Commissioners. Estimated cost, $150,000.

Kan., Topeka—Drainage—Survey being made by V. R. Parkhurst of Indian and Soldier Creek territories of North Topeka Drainage District.

Tex., Aldine—Drainage—Bonds for $140,000 sold for drainage work in Drainage District No. 7.

Tex., Austin—Reclamation—A. A. Stiles, State Reclamation Engr., made surveys for organization of levee district for reclamation of 100,000 acres from mouth of Little Brazos to point near Marlin. Noted Aug. 26.

Tex., Bay City—Drainage—E. N. Gustafson, Engr., submitted report to Matagorda County Commissioners for drainage system in District No. 6. Estimated cost, $47,988. Noted Sept. 2.

Tex., Houston—Drainage—Bonds for $140,000 for drainage system have been sold. Noted Sept. 9.

N. M., Carlsbad—Irrigation—Bids will soon be received by L. E. Foster, Project Mgr., for Down Canyon Pipe line.

Utah, Minersville—Irrigation—Delta Land and Water Co. and Minersville Irrigation Co. contemplate lateral system of water distribution over 12,000 acres in Beaver County.

Wash., Brewster—Irrigation—Contract will soon be awarded for Brewster Irrigation District project. Estimated cost, $1,069,000. Noted Sept. 30.

Ore., Burns—Irrigation—Harbey Basin Development Co. has secured water rights to irrigate 50,000 acres of land.

Ore., Grandview—Irrigation—Election will be held Nov. 22 to vote on $600,000 bonds for Suttle Lake Irrigation District. C. I. Henline, Secy. Bd. of Directors.

Ore., Grants Pass—Irrigation—Rogue River Public Service Corporation granted permit by State Engineer to appropriate water for irrigation of 12,460 acres.

Ore., Hood River—Irrigation—Bids will be received until Nov. 16 by Board of Directors of East Fork Irrigation District Nos. 5 and 6, Hood Bldg., for diversion gates, dam and intake works and for enlarging canals. Noted Sept. 23.

Ore., Medford—Canal Improvements—Rogue River Canal Co. contemplates enlarging canal, building ten mile extension to Hopkins Canal and other improvements. Estimated cost, $250,000.

Ore., Salem—Reclamation—Surveys will be completed about Dec. 15 for reclamation of 75 miles on French Prairie. Noted Nov. 4.

Ore., Salem—Irrigation—Harney Basin Development Co. will irrigate about 50,000 acres.

Ore., Warrenton—Dredging—Surveys will be made for dredging mouth of Skipanon River at Warrenton. Estimated cost, $40,000.

Calif., Blythe—Irrigation—Plans prepared for irrigation of 60,000 acres for California Farm and Irrigation Co.

Calif., Lindsay—Irrigation—Preliminary surveys made for Lindsay Strathmore Irrigation District. Estimated cost, $1,600,000. John Burr, Charles K. Towt and others interested. Noted Nov. 4.

Calif., Los Angeles—Irrigation—Board of Supervisors contemplating issuing $2,606,000 bonds for organization of Irrigation District No. 3.

Calif., Pollasky—(Friant post office)—Irrigation Dam—Madera Canal and Irrigation Co. contemplates building irrigation dam across San Joaquin River near mouth of Hildreth Creek.

Calif., Stockton—Irrigation—Board of Supervisors will issue $300,000 bonds for West Side Irrigation District to irrigate 11,000 acres, pumping plant and ditch system. Noted Oct. 28.

Bids In and Contracts Awarded

Fla., Miami—Canals—South Florida Farm Co. awarded contract for 100 miles of canals and laterals on Lake Okeechobee in Lee and De Soto Counties to W. F. POLK.

Miss., Silver City—Canals—Contract for 15 miles of canals for Atchafalaya Drainage and Levee District awarded to W. P. BULLOCK CO., Kansas City, Mo., at $0.0777 per cu.yd. 30,000 cu.yd. of levees to C. B. BOX, Midnight, Miss., at $0.23 per cu.yd. Noted Oct. 14.

Ky., Henderson—(Official)—Drainage—Contract for 34,810 ft. drainage ditch awarded to A. BENNEMAN, Chicago, Ill., at $11,600. Noted Oct. 14.

Ohio, Toledo—Ditch—County Commissioners awarded contract for Harris Ditch to C. J. BOSTON, Monclova, Ohio.

Iowa Council Bluffs—Drainage—Contract for improving Allen Creek ditch and Fish Lake of Harrison-Pottawatomie Drainage District No. 1 awarded to R. S. MORROW, Omaha. Estimated cost from $38,000 to $50,000. Noted Oct. 21.

Iowa, Jefferson—Drainage—Contracts for drainage work in Drainage District No. 102, Greene County awarded as follows: SAC CITY CEMENT PRODUCTS CO., at $26,336, ARTHUR McHOSE, at $28,870, BART JONES AND C. A. MOORE, at $20,974.

Iowa, Jefferson—(Official)—Drainage—Contract for tile for drain No. 108, Franklin Township, awarded to JEFFERSON CEMENT PRODUCTS CO., at $11,017; labor to THOMAS LARSEN, Callender, at $9,703. Noted Oct. 21.

Minn., Blue Earth—(Official)—Ditch—Contract for County Ditch No. 32, Fairbault County, awarded to OTTO MILLER, at $14,435. Noted Oct. 21.

Ark., Corning—Ditch—Contract for 1,560,000 cu.yd. of ditch and 116,500 cu.yd. of levee work for Big Gun Drainage District, Clay and Green Counties, awarded to NORTHERN CONSTRUCTION CO., Elkhart, Ind., at $116,330.

Ark., Pocahontas—Drainage—Contract for drainage work in Big Running Water and Tupeld Drainage Districts awarded to SCHWEINGRUBER & POWERS, Datto, Ark.

Tex., Victoria—Drainage—Contract for improving Drainage District No. 3 awarded to U. B. McCURDY. Estimated cost, $190,500. Noted Sept. 30.

Colo., Sterling—Dam—North Sterling Irrigation District awarded contract for refacing dam 100 ft. high to CLARK & HESSELMAN, Pueblo. Estimated cost, $100,000.

N. M., Tularosa—Irrigation—Contract for installing pumping plant on Tularosa Creek for irrigation of 500 acres awarded to J. E. MALONEY.

MISCELLANEOUS

Proposed Work

N. Y., Buffalo—Wharf Improvements—Commissioner of Public Works will soon award contract for concrete wall paralleling the Bird Island Pier, 50x80 ft. out in river. Wall will be 3,000 ft. long.

N. J., Trenton—Fire-Alarm Station—Board of Commissioners will build central station for new police fire-alarm system.

Penn., Philadelphia—Piers—Cramp Shipbuilding Co. granted permission to build two piers into Delaware River at Girard Ave. Estimated cost, $45,900.

Penn., Philadelphia—(Official)—Pier—Bids will be received until noon, Dec. 6, by John Meigs, Dir. of Dept. of Wharfs, Docks and Ferries, 555 Bourse Bldg., Philadelphia, for superstructure of McKean St. Pier, Nos. 78 and 80 south, and adjacent bulkhead shed in Delaware River between McKean St. and Snyder Ave. Estimated cost, $500,000. Noted Aug. 26. (See adv.)

Md., Baltimore—Tunnel—Preliminary plans prepared for tunnel under Patatsco River for Pennsylvania R.R. Estimated cost, $12,000,000.

W. Va., Huntington—Subway—Plans prepared for subway in Tenth St. for Chesapeake & Ohio R.R. Co. Estimated cost $50,000.

Miss., Bay St. Louis—Seawall—Bids will be received until Dec. 1 by Charles G. Moreau, seawall. Noted Oct. 21.

Ky., Louisville—Park Improvements—Park Commissioners considering improvements to parks.

Ohio, Portsmouth—Flood Protection—Bids will be received until noon, Nov. 17, by William Gergens, Dir. of Pub. Ser., for second section of flood protection wall. Noted Oct. 7.

Ohio, Springfield—Retaining Wall—Bids will be received until noon, Nov. 29, by Walter J. Barrett, City Audr., for purchase of $13,500 bonds for building and improving retaining walls in Mill Run. Noted Oct. 21.

Ohio, Wellsville—(Official)—Dikes—Citizens voted $50,000 for dykes. Noted Oct. 28.

Ind., Ft. Wayne—Elimination of Grade Crossing—Plans prepared for track elevation for Pennsylvania R.R. and Wabash R.R. Alexander C. Shand, Philadelphia, Penn., Ch. Engr., Pennsylvania R.R.

Ill., Belleville—Tunnel—City contemplates building tunnel to care for flood waters of Richland Creek which will bisect city from north to south. John Taylor, interested.

Ill., East St. Louis—Coal Terminal—Wiggins Ferry Co. contemplates building coal terminal at foot of Trendley Ave.

Wis., Beloit—Mausoleum—City will build mausoleum within year. Estimated cost between $45,000 and $75,000.

Neb., Omaha—Crane—Bids will be received until Nov. 16 by T. J. O'Connor, City Clk., for railroad crane of five tons capacity.

Mo., St. Joseph—Speedway—Plans prepared for two-mile speedway at Lake Contrary. John Prince interested. Estimated cost, $2,000,000. Noted Nov. 4.

Tex., Galveston—Dry Dock—J. J. Kane and associates plan dry dock and marine way.

Tex., Galveston—Wireless Station—Marconi Wireless Telegraph Co. will build wireless station with sufficient power to send and receive message from Europe.

Tex., Houston—Wharves and Slips—City contemplates expenditure of $1,000,000 for wharves and slips next year.

Tex., Orange—Dredging—Bids will soon be received for dredging slips for wharfs and docks. E. U. Henry, City Engr.

Wash., Seattle—Sprinkling System—Chicago, Milwaukee & Puget Sound Ry. Co. will install automatic sprinkling system for protecting Milwaukee docks on East Waterway. Estimated cost, $15,000.

Wash., Tacoma—Dike—County Commissioners of Pierce County, Thomas N. Morris, Audr., plans dikes along Lincoln Ave. on tideflats of Hylebos Creek. Estimated cost, $200,000.

Ore., Bandon—Jetty—Plans being prepared by Port Engineer for south jetty for Port of Bandon. Estimated cost, $20,000.

Calif., Huntington Beach—Subway Work—Bids will be received until Nov. 15 by City Clerk for reinforced-concrete pipe culverts, reinforced concrete and timber subway and approaches under Southern Pacific tracks.

Calif., Los Angeles—Elimination of Grade Crossings—Pacific Electric Ry. Co. will elevate tracks from station at Sixth and Main St. to San Pedro St. Estimated cost, $300,000.

Calif., Ocean Beach—Seawall—Citizens contemplate issuing $50,000 bonds for seawall.

Que., Montreal—Elimination of Grade Crossing—Plans prepared for eliminating grade crossing at St. Denis St. over tracks of Canadian Pacific Ry., which will involve building of bridge 500-ft. long with ornamental balustrades and electric-light standards. Estimated cost, $70,000.

Ont., London—Subway—H. A. Brazier, City Engr., estimates cost of Egerton St. subway to be $94,000.

Bids In and Contracts Awarded

Mass., Boston—Convenience Station—Contract for convenience station awarded to M. S. KELLIHER, Oak St., Atlantic. Estimated cost, $13,009.

N. Y., New York—(Borough of Brooklyn)—(Official)—Station Finish—Bids were received Nov. 5 for station finish for 11 stations on Broadway-Fourth Ave. Rapid Transit R.R. from A. L. GUIDONE, 131 East 23d St., N. Y., at $513,656 (awarded contract); Louis Wechsler, $535,000; Marble Arch Co., $546,000. Noted Nov. 4.

N. Y., New York—(Borough of Brooklyn)—Terminal—New York Municipal Ry. awarded contract for Coney Island Terminal to GEORGE W. McNULTY CO., New York.

N. Y., New York—(Borough of Queens)—(Official)—Storm Drain—Bids were received Nov. 3 for storm drain for Queensborough Rapid Transit R.R. from Murphy Bros., Madison Ave. and 42d St., N. Y., at $7421; Lawrence Contracting Co., 2409 Walton Ave., N. Y., at $9,326; L. J. Moran, at $9,817.

N. J., Deal Beach—Bulkhead—Contract for bulkhead awarded to FRANK R. STONEWALL, Melvin, N. J., at $13,885. Noted Nov. 4.

N. J., Jersey City—Trap Rock—Hudson County Park Commissioner awarded contract to CHARLES T. KAVANAUGH, Bayonne, at $1.54 per cu.yd. for 3,300 cu.yd. 2½-in., 2,100 cu.yd. 1½-in. and 300 cu.yd. of ¾-in. broken trap rock; JAMES BRADY'S SONS CO., at $1.16 per bbl. for 500 bbl. of cement.

Penn., Philadelphia—Superstructures—McCLINTIC-MARSHALL CO., Philadelphia, awarded contract for steel superstructures on three sections of Frankford Elevated Line extending from Girard Ave. north to Unity St. at $1,455,000. Noted Nov. 4.

Penn., Pittsburgh—Retaining Wall—Contract awarded to WILLIAM J. PAYNE, JR., CO., at $20,460, for various retaining walls along Scotia Hollow Rd. in Jefferson Township.

Penn., St. Clair—Elimination of Grade Crossing—Contract awarded to P. J. CAMPION, Mahanoy City, for subway under Reading Ry. at northern section of Second St. on line of Schuylkill Ry. Co. to eliminate grade crossing.

Va., City Point—Pier—E. I. Du Pont de Nemours Powder Co. awarded contract to W. D. MURRAY & CO., at $50,000, for pier on James River.

Va., Lamberts Point—(Norfolk post office)—Piers—Press reports state that John P. Pettyjohn & Co., Lynchburg, will be awarded contract for two piers for Norfolk & Western R.R. Estimated cost, $1,800,000. Noted Oct. 14.

La., New Orleans—Levee—State Board of Engineers awarded contract to A. G. THOMAS, at $5 per hour for levee from Happy Jack to Butlar.

Ill., Alton—Tunnel—Board of Administration, Alton State Hospital, awarded contract to STRUBEL & HELMICK, Alton, at $53,850, for tunnel system.

Ill., Shawneetown—Levee—River and Lakes Commission awarded contract for repair work to Shawneetown Levee to J. A. CAMPBELL, Oakland, Ind., at $0.67 per cu.yd.

Wis., Lake Geneva—Storage Tank—John C. Flemming awarded contract to J. D. READER for 10,000-gal. storage tank and steel support.

Wis., Superior—Dock Improvements—M. A. Hanna & Co. awarded contracts for improvements to docks to BARNETT RECORD CO., concrete work; MEAD MORRISON CO., Chicago, Ill., steel work. Estimated cost, $90,000.

Wis., Superior—Freight Steamer—Interlake Steamship Co., Cleveland, Ohio, awarded contract to AMERICAN SHIP BUILDING CO., at $440,000, for 60x600-ft. freight steamer.

Iowa, Muscatine—Terminal—Levee Commission awarded contract to B. LAYTON, Chicago, Ill., at $13,676, for terminal.

Tex., Temple—(Official)—Fire-Alarm System—Contract for fire-alarm system awarded to GAMEWELL FIRE ALARM CO. Estimated cost, $10,000. Noted Oct. 28.

Tex., Victoria—Freight Pier—Contract for reinforced concrete pier 1,000-ft. long and 100 ft. wide for Raisin, Fordtran & Smiley Ry. awarded to FRED URBAN BUILDING CO. Estimated cost, $1,000,000.

Wash., Cathlamet—Dike—Contract for 17 miles of dike on Columbia River awarded to MONTAGUE & O'REILLY, Portland, Ore., at $99,000. Noted Oct. 21.

Wash., Seattle—Bulkhead—Contract for filling and bulkheading East Marginal Way awarded to PUGET SOUND BRIDGE AND DREDGING CO., Seattle, at $80,957. Noted Oct. 14.

Ore., Portland—Elimination of Grade Crossing—Contract for underground crossing on Sandy Rd. awarded to CROWLITZ BRIDGE CO.

Calif., San Francisco—(Official)—Esplanade—Contract for Section A of esplanade and sea wall awarded to C. E. LAMBURTH, San Francisco, at $48,500. Noted Nov. 4.

Porto Rico, San Juan—Bulkhead Shed—Bids received Oct. 1 by Harbor Board for (a) 841-ft. shed, (b) 529-ft. shed, (c) 1 crane, (d) 2 cranes as follows: J. Benitez, (a) $72,975, (b) $17,582, (d) $30,498; P. J. Carlin Construction Co., (a) $78,800, (b) $53,000, (c) $17,000, (d) $29,000; John Monks & Son, (a) $83,138, (b) $56,975, (c) $19,000, (d) $34,000. Noted Sept. 2.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Proposed Work

Mass., Boston—(Roxbury)—(Official)—Bids will be received by Schoolhouse Commissioners of City of Boston until noon, Nov. 12, for addition to High School of Practical Arts. Noted Oct. 28 and Nov. 4.

Mass., Boston—Plans being prepared for theater, bowling alleys, garage and stone building for Myer Dana, 209 Washington St. Silverman Engineering Co., 43 Tremont St., Arch. Estimated cost, $400,000.

Mass., Boston—Plans being prepared by Joseph D. McGinnis, Arch., 16 Arlington St., for 3-story school. J. P. Lomasney, Ch. of Schoolhouse Com. Estimated cost, $200,000.

Mass., Boston—Shawmut Avenue Real Estate Trust will build six-story mercantile building at Shawmut Ave. and Castle St. Estimated cost, $200,000. G. N. Meserve, Arch.

Mass., Boston—Plans being prepared by C. Howard Walker, 71 Kilby Bldg., Boston, for office building for Eugene F. Sullivan.

Mass., Boston—Josiah H. Bentors, Chn. Bd. of Trustees, plans addition to Public Library at Copley Sq. Estimated cost, $300,000.

Mass., North Adams—Bids will be received until Nov. 17 by E. C. and G. C. Gardner, Arch., Springfield, Mass., for three-story, 100x270-ft. brick high school. Estimated cost, $125,000. Noted Sept. 16.

Mass., Waltham—Bids will be received until Nov. 15 for one-story, 62x184-ft. brick and terra cotta church for St. Charles R. C. Church. Estimated cost, $80,000. Noted Oct. 7.

R. I., Providence—Bids will be received until Nov. 22 by Board of Contract and Supply for grammar school building. Carpenter & Sheldon, Arch. Estimated cost, $150,000. Noted Oct. 7.

Conn., Wethersfield—Plans being prepared for administration building for Connecticut Institute for the Blind. A. Raymond, Arch.

N. Y., Buffalo—Bids will be received until 11 a.m., Nov. 16, by E. J. Meyer, Chn. of Hospital Com., 1312 Main St., for hospital at Kensington Ave. and Grider St. Estimated cost, $600,000. Green & Wicks, 110 Franklin St., Arch.

N. Y., Far Rockaway—Board of Education contemplates building addition to Public School No. 39. Estimated cost, $50,000.

N. Y., New York—(Borough of Bronx)—(Official)—Preliminary plans being prepared by Louis Allen Abramson, Arch., 220-Fifth Ave., for four-story, 200x200-ft. hospital for Home of Daughters of Jacob, 302 East Broadway. Estimated cost, $400,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Preliminary plans being prepared by Mott B. Schmidt, Arch., 15 East 40th St., for 12-story, 25x100-ft. reinforced-concrete loft building for 23 West 57th St. Corps. Estimated cost, $150,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Plans prepared for 12-story, 25x100-ft. store and office building at 58th St. near Fifth Ave. for 25 West 57th St. Co., 128 Broadway M. B. Schmidt, Arch., 15 East 40th St. Estimated cost, $125,000.

N. Y., New York—(Borough of Manhattan)—(Official)—R. H. Almivoty, Arch., 220 Fifth Ave., preparing plans for alteration to loft and store building for Pinchot Estate, 60 Broadway. Estimated cost, $125,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Plans being prepared for addition to department store at Lexington Ave. and 60th St. for Bloomingdale Bros., 59th St. and Third Ave. Buchman & Fox, Arch., Madison Ave. and 42nd St. Estimated cost, $400,000.

N. Y., Rochester—Plans being prepared by Gordon & Madden, Arch., Sibley Bldg., for school No. 37. J. S. Mullan, Secy. Bd. of Education. Estimated cost, $90,000.

N. Y., Saranac Lake—Plans submitted by Mann & MacNeille, Arch., 70 East 45th St., N. Y., to C. M. Palmer, Chn. Local Development Com. of Bd. of Trade for hotel and club house. Estimated cost, $500,000.

N. J., Elizabeth—Bids will soon be received for El Mora School by the Board of Education. Estimated cost, $60,000.

N. J., Jersey City—Board of Commissioners will build school for crippled children.

N. J., Montclair—(Official)—Bids will be received until 8 p.m., Nov. 23, by Frank J. Taylor, Secy. Bd. of Education, for alterations to Spaulding School. Estimated cost, $50,000. Noted Oct. 28. (See adv.)

N. J., Morris Plains—Commission of Mental Defectives preparing preliminary plans for addition to State Hospital.

N. J., Newark—Citizens voted $1,500,000 bond issue for municipal memorial building.

N. J., New Providence—Bids will be received until Nov. 15 by Board of Education for Lincoln School.

N. J., Spring Lake—Plans prepared by Watson & Huckel, Arch., 1211 Walnut St., Philadelphia, Penn., for five-story brick addition to Hotel Monmouth. Estimated cost, $45,000.

N. J., Westfield—Holy Trinity Church contemplates building church and school on Westfield Ave. Estimated cost, $70,000.

Penn., Brackenridge—(Official)—Citizens voted $60,000 bonds for school. Noted Oct. 14.

Penn., Butler—Plans being prepared for three-story, 80x160-ft. lodge building for L. O. O. M. No. 67. M. Nirdlinger, Arch., Diamond Bank Bldg. Estimated cost, $75,000.

Penn., Carlisle—F. H. Hall, Secy. Pub. Charities Comn., contemplates building inebriate asylum. J. M. McColum, Berger Bldg., Pittsburgh, Arch. Estimated cost, $300,000.

Penn., Edgewood—Plans being prepared by Thomas Hannah, Arch., for church for First Presbyterian Church. Estimated cost, $75,000.

Penn., Harrisburg—Kesher Israel and Chisul Emuna Jewish Congregations have united and will build synagogue. Estimated cost, $80,000.

Penn., Hershey—First United Brethren Church will build church on Chocolate Ave. Estimated cost, $60,000. M. S. Hershey, interested.

Penn., Lewisburg—Union County contemplates one and two-story jail. A. H. Frick, Arch. Estimated cost, $75,000.

Penn., Lewistown—(Official)—Citizens voted $100,000 bonds for high schools. Noted Oct. 28.

Penn., Philadelphia—(Official)—Bids will not be received this year for one-story building for Beneficial Savings Fund Society. Estimated cost, $250,000.

Penn., Philadelphia—St. Carthage Church will build two-story stone church at 62nd St. and Cedar Ave. Henon & Boyle, Arch.

Penn., Philadelphia—Plans being prepared by W. H. Thomas, Arch., Philadelphia, for church at 51st and Spruce St. for Protestant Episcopal Chapel of Mediator. Estimated cost, $100,000.

Penn., Pittsburgh—Plans prepared by Thomas Hannah, Arch., for church for Edgewood Presbyterian Congregation. Estimated cost, $80,000.

Penn., Pittsburgh—Plans being prepared for five-story, 82x114-ft. building for First U. P. Church. Estimated cost, $300,000.

Penn., Scottdale—Plans being prepared for two-story church for United Brethren Church. Estimated cost, $40,000.

Penn., Wilkinsburg—Board of Education retained Ingham & Boyd, Arch., Vanderbilt Bldg., Pittsburgh, to prepare plans for school. Estimated cost, $300,000.

Penn., York—York County contemplates building one and two-story almshouse. B. F. Willis, 10 West Market St. Estimated cost, $400,000.

Del., Newark—Bids will soon be received for two-story agriculture building for Delaware State College. Day & Klauber, Arch., Philadelphia, Penn. Noted Oct. 21.

D. C., Washington—Plans being prepared by Marsh & Peter, Arch., 520 13th St., N. W., for preparatory school for Georgetown University. Estimated cost, $400,000.

D. C., Washington—Y. M. C. A. plans six-story building. C. L. Harding, Woodward Bldg., Arch. Estimated cost, $400,000.

D. C., Washington—Plans prepared by R. W. Geare, Arch., Woodward Bldg., for motion picture theater. Estimated cost, $100,000.

W. Va., Wheeling—Plans prepared by F. F. Faris, E. B. Frankheim and M. F. Giese, Archs., for clubhouse for Knights of Columbus. Estimated cost, $100,000.

W. Va., Wheeling—Royal Southern Amusement Co. plans to build theater and dance hall. Estimated cost, $50,000. G. H. Dieringer, 106 North Huron St., Arch.

Ga., Athens—Bids will be received until noon, Dec. 1, by W. T. Forbes, Secy. Bldg. Comn., for Y. M. C. A. building.

Fla., Jacksonville—Contracts for ten schools will be awarded in January by Board of Public Instruction of Duval County. Bonds for $1,000,000 sold. William B. Ittner, St. Louis, Mo., Arch.

Miss., Pass Christian—See item under "Streets and Roads."

La., New Orleans—Bids will be received until 5 p.m., Nov. 17, by Rathbone DeBuys and Charles R. Armstrong, Arch., 1018 Hibernia Bank Bldg., New Orleans, for Corinne Casanas Memorial Clinic Hospital at Birod St.

Tenn., Knoxville—Board of Commerce contemplates building to be known as Tennessee Vocational Reformatory for Girls. Estimated cost, $50,000.

Tenn., Memphis—Plans being prepared for six-story building at Union Ave. and Third St. for Frank G. Jones. Estimated cost, $75,000.

Tenn., Murfreesboro—Plans prepared by R. H. Hunt, Arch., Chattanooga, for new Baptist Church. Estimated cost, $40,000.

Tenn., Nashville—Board of Education having plans prepared by W. B. Ittner, for addition to high school building. Estimated cost, $100,000.

Tenn., Nashville—Commercial Club will remodel Vanderbilt Law Bldg., and build swimming pool. Marr & Holman, Nashville, Arch. Estimated cost, $75,000.

Ky., Ashland—Congregation of Ashland Methodist Episcopal Church plans to build church and Sunday school. Estimated cost, $75,000. V. T. Ritter, 1119 First National Bank Bldg., Huntington, W. Va., Arch.

Ky., Georgetown—(Official)—Citizens defeated $90,000 bonds for new school. Noted Oct. 14 and 21.

Ky., Lexington—(Official)—Citizens voted $100,000 bonds for two schools. Noted Aug. 28.

Ohio, Avondale—Plans being prepared by Samuel Hannaford & Son, Arch., for building for Bethesda Hospital. Estimated cost, $50,000.

Ohio, Bratenahl—(Cleveland post office)—Plans prepared by A. Garfield, Arch., 815 Garfield Bldg., Cleveland, for city hall building at East 105th St. C. A. Neff, City Clk.

Ohio, Canton—Bids will be received by School Board until Nov. 22 for Daniel-Worley School.

Ohio, Chillicothe—A tuberculosis hospital will be constructed by Ross, Fayette, Highland, Sciota and Fairfield Counties. Estimated cost, $40,000. Robert Alexander, Secy.

Ohio, Chillicothe—Bids will soon be received for two-story memorial building and armory for Fourth Regiment. Estimated cost, $65,000.

Ohio, Cleveland—Citizens voted $2,000,000 bonds for schools and improvements to schools. Noted Oct. 17.

Ohio, Cleveland—Cleveland Council, Knights of Columbus, contemplate new clubhouse. Estimated cost, $50,000.

Ohio, Cleveland—Plans prepared by William S. Lougee, Arch., 500 Marshall Bldg., for two-story club house at 2097 East 21st St. for Bricklayers' Union. Estimated cost, $40,000.

Ohio, Cleveland—Bids will soon be received by Hubbell & Benes, 201 Avenue Bldg., Arch., for club house and auditorium for Al Koran Temple of the Mystic Shrine. Estimated cost, $300,000.

Ohio, Cleveland—Mall Building Co. will not build theater until spring. Estimated cost, $65,000.

Ohio, Cleveland—Plans are being prepared by Franz C. Warner, Arch., 767 Hippodrome Bldg., for four-story, 110x120-ft. college for Western Reserve University Dental School. Estimated cost, $125,000.

Ohio, Cleveland—Bids will soon be received for four-story, 60x145-ft. addition for St. Alexis Hospital, Sisters of St. Francis. William C. Jamsen, Arch., 403 O'Brien Bldg. Estimated cost, $150,000. Noted Nov. 4.

Ohio, Columbus—Howard & Merriam contemplate building school in Goshen Township. Estimated cost, $40,000.

Ohio, Columbus—Plans prepared for school building for Preble County.

Ohio, Columbus—Plans prepared by Stribling & Lum, Arch., for Columbus General Hospital at Indianola Ave. and Glen Echo Ravine.

Ohio, Columbus—Bids will be received until noon, Nov. 15, by Ohio State University, Carl E. Steeb, Secy., for Homeopathic Hospital.

Ohio, Dayton—Peter Kuntz will build tuberculosis hospital above Stillwater River off Covington pike. Estimated cost, $500,000.

Ohio, Elyria—Plans being considered by Willys-Overland Co. for hospital for employees. Estimated cost, $60,000.

Ohio, Fremont—Grace Lutheran Church plans one-story church and parish house. Estimated cost, $75,000.

Ohio, Lakewood—Citizens voted $500,000 bonds for schools

Ohio, Martins Ferry—Preliminary plans being prepared by C. W. Bates, National Bank of West Virginia Bldg., for store, bank and office building for German Savings Bank. Estimated cost, $80,00. E. E. McCombs, Pres.

Ohio, Norwood—South Norwood Welfare Association interested in plan to issue $45,000 bonds for new school in Norwood View.

Ohio, Old Fort—Board of Education retained H. C. Millott, Arch., 411 Columbus Ave., to prepare plans for two-story, 98x108-ft. school. Estimated cost, $40,000.

Ohio, Painesville—Preliminary plans prepared for gymnasium for Lake Erie College. Bids will not be received until spring. Estimated cost, $70,000.

Ohio, Somerville—(Official)—Bids will be received until noon, Nov. 20, by F. W. Peter, Clk., Bd. of Education of Somerville Village School District, for fire-proof school building.

Ohio, Steubenville—Bids will soon be received for three-story, 48x70-ft. lodge and store building for Lodge No. 1, Knights of Pythias. Estimated cost, $40,000. J. C. Ault, Market St., Chn. of Trustees.

Ohio, Toledo—A 16-story, reinforced-concrete hotel will be constructed on site of present Boody House. Estimated cost, $3,000,000.

Ohio, Uhrichsville—Board of Education plans to hold election to vote on bond issue for $40,000 for new school on Trenton Ave. and repairing Main St. school.

Ohio, Warren—Plans being prepared by Crow, Lewis & Wickenhoefer, Arch., 200 Fifth Ave., New York, N. Y., for two-story church for First Presbyterian Church. Estimated cost, $55,000.

Ohio, Wooster—Board of Education of Wayne Township plans to issue $40,000 bonds for high and grade school.

Ohio, Youngstown—Y. W. C. A. plans to build a five-story, 58x144-ft. dormitory. Estimated cost, $40,000. E. F. Moore, 225 W. Rayen St., Gen. Secy.

Ind., Brookston—Edward Ferguson, Trustee, has retained Elmer E. Dunlap, 909 State Life Bldg., Indianapolis, Arch.., to prepare plans for high and grade school. Estimated cost, $40,000.

Ind., Springfield—Board of Education contemplates building high school at Eighth and North B St. Estimated cost, $150,000.

Ind., Terre Haute—(Official)—Bids will be received about Dec. 1 for 16-room school at 25th and Fourth Ave. Estimated cost, $70,000. John & Miller, Ball Bldg., Arch. Noted Oct. 28.

Mich., East Lansing—Bids will be received until noon, Nov. 17, by A. M. Brown, Secy. State Bd. of Agriculture, for gymnasium at Michigan Agriculture College. E. A. Brown, Lansing, Mich., Arch.

Mich., Grand Rapids—Bids will soon be received by Lee De Camp, Arch., 26 Empress Bldg., for three-story, 13,132-ft. theater. Estimated cost, $225,000. Noted Aug. 12.

Mich., Lansing—Bids will be received about Nov. 15 for eight-story 45x100-ft. bank and office building for Lansing State and Savings Bank. S. D. Butterworth, Arch., 432 Tussing Bldg. Noted Oct. 28.

Ill., Chicago—Chicago Theological Seminary contemplates building theological school. Estimated cost, $200,000.

Chicago, Ill.—Chicago Telephone Co., 212 West Washington St., will build three-story brick exchange at 1509 North Western Ave. Estimated cost, $90,000.

Ill., Danville—Bids will soon be received for four-story, 75x150-ft. building for Masonic Lodge. Estimated cost, $150,000. J. Sutton, Secy.

Ill., Decatur—State Federation of Labor contemplates building temple. Estimated cost, $75,000.

Ill., Freeport—Elks of Moline will build lodge building. Estimated cost, $100,000.

Ill., Mendota—Citizens voted $60,000 bonds for high-school building.

Ill., Springfield—Charles H. Seward will build three-story building at Third and Adams St. Estimated cost, $50,000.

Wis., Kenosha—Kenosha County Supervisors plan to build hospital for insane. Estimated cost, $100,000.

Wis., Madison—Chicago, Milwaukee & St. Paul Railway will build new union station. Estimated cost, $16,000,000.

Wis., Milwaukee—Plans being prepared for 12-story 120x120-ft. club house for Ticonic Investment Co., 927 Wells Bldg. Estimated cost, $500,000.

Wis., Milwaukee—Bids will be received in December for two-story, 109x174-ft. and one-story, 35x76-ft. school and power house for Board of Education. Van Ryn & De Gelleke, Caswell Bldg., Arch.

Wis., Milwaukee—Henry G. Lotte, Arch., 304 West Water St., preparing plans for one-story moving-picture theater for O. L. Meister. Estimated cost, $50,000.

Wis., Milwaukee—Plans prepared by Schmidt, Garden & Martin, Arch., 104 South Michigan Ave., Chicago, Ill., for four-story Columbia Hospital at Hartford and Maryland Ave. Estimated cost, $300,000.

Wis., Waukegan—Carroll College will build gymnasium in connection with proposed boys dormitory. Estimated cost, $100,000.

Minn., Minneapolis—Milwaukee Railway Co. contemplates passenger station in southern part of city. Estimated cost, $100,000.

Minn., St. Paul—Work will soon be started on building of 12-story addition to St. Paul Hotel. Estimated cost, $250,000.

Kan., Coffeyville—Preliminary plans being prepared by C. A. Henderson, Arch., Kellogg Bldg., for school buildings for Board of Education. G. Halsey, Clk., Bd. of Education. Estimated cost, $56,000. Noted Sept. 30.

Kan., Salina—Work will be started in spring on academy for Sisters of St. Joseph. Estimated cost, $200,000.

Kan., Wichita—New bids will be received until Nov. 22 for Y. M. C. A. building. Estimated cost, $65,000. H. S. Conrow, Beacon Bldg., Arch. Noted Oct. 28.

Kan., Winfield—Plans prepared for six-story hotel on Main St. and Ninth Ave. for Capitalists of Winfield. Estimated cost, $200,000. Noted Nov. 4.

Mo., St. Louis—Bids will be received until noon, Nov. 19, by Board of Public Works, 315 City Hall, for first unit of new children's building for City of St. Louis.

Tex., Austin—Plans being prepared for hotel for H. A. Wroe and associates. Estimated cost, $500,000.

Tex., Wichita Falls—(Official)—Election will be held Nov. 20 to vote on $150,000 bonds for courthouse. Noted Oct. 14.

Okla., Holdenville—Election will be held Nov. 17 to vote on $100,000 bonds for courthouse and jail.

Okla., Vinita—Citizens contemplate holding election to vote on $50,000 bonds for courthouse. E. J. McBride, County Clk.

Colo., Denver—Board of Education will build three schools. Estimated cost, $140,000.

Colo., Loveland—Citizens voted $90,000 bonds for high and grammer school. Noted Oct. 21.

Wash., Bellingham—Trezise Estate will build three-story, 55x125-ft. building at 1214 Commercial St. Estimated cost, $60,000.

Ore., Pendleton—W. H. McCormack, Pendleton, retained C. E. Troutman, Arch., to prepare plans for anamusement resort consisting of hotel, matatorium and 20 cottages. Estimated cost between $50,000 and $75,000.

Calif., Lodi—(Official)—Election will soon be held to vote on bonds for school. Otto Weihe, Secy. School Bd. Noted Oct. 21.

Calif., San Francisco—Ellis Street Investment Co. is financing a project for building theater at Ellis and Mason St. Estimated cost, $300,000.

Bids In and Contracts Awarded

Maine, Bucksport—Contract for theater for H. O. Hussey awarded to OTTO NELSON CO., Bangor.

Mass., Holyoke—(Official)—All bids received for isolation hospital for city rejected as being too high. Estimated cost, $40,000. Noted Oct. 21 and 28.

Mass., Milford—Contract for brick construction of school awarded to DILLON BROS., Milford, at $69,873. Noted Sept. 30.

Mass., Worcester—Notre Dame Church awarded contract to E. BELISLE for three-story, 69x72-ft. parochial school. Estimated cost, $50,000.

R. I., Providence—Contract for dormitory for State Home and School awarded to CRUISE & SMILEY CO., Pawtucket. Noted Oct. 21.

Conn., Milford—(Official)—Contract for municipal building awarded to NORMAN KER, 1123 Broadway, N. Y., at $120,000. Noted Oct. 14 and 28.

Conn., New Haven—New Haven Hospital awarded general contract for eight buildings to TRACY BROS., Waterbury, Conn. Estimated cost, $400,000.

N. Y., Albany—Contract for six-story office building at 124 State St. for Municipal Gas Co. awarded to WELLS BROTHERS CO. Estimated cost, $250,000. Noted Sept. 16.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids were received Nov. 1 by Park Commission for two-story lecture hall and greenhouse extension for Brooklyn Botanic Garden from Frymier & Hanna Co., 25 West 45th St., at $140,223; Thomas McKeown, 103 Park Ave., at $147,235; P. F. Kenney Co., 33 Old Broadway, at $155,000. Noted Sept. 30.

N. Y., New York—(Borough of Manhattan)—St. Bernard's R. C. Church, 328 West 14th St., awarded contract for five-story, 66x125-ft. school to JOHN BRADY & CO., 103 Park Ave. Estimated cost, $130,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for lounge room for Hotel Biltmore, 43d St. and Madison Ave., for New York Central R.R. Co. awarded to JOHN PIERCE, 383 Madison Ave. Estimated cost, $50,000. Noted Oct. 14.

N. Y., White Plains—(Official)—Contract for penitentiary and workhouse at East View, for Westchester County, awarded to JOHN T. BRADY & CO., 52 Vanderbilt Ave., at $500,000. Noted Sept. 9.

N. J., Hoboken—(Official)—Hoboken Land and Improvement Co. awarded contract to TURNER CONSTRUCTION CO., 11 Broadway, N. Y., for Section D of 12-story, 81x263-ft. building at 15th St.

N. J., Newark—Board of Education awarded contract for Milford School at 18th Ave. to E. M. WALDRON & CO., INC., at $101,090 for mason and carpenter work, CHARLES GOELLER CONSTRUCTION CO., at $13,645 for steel and iron. Noted Oct. 28.

Penn., Allentown—Board of Education awarded general contract to OCHS CONSTRUCTION CO., 450 Wire St., at $79,125, for two-story school.

Penn., Lebanon—Bids have been received for two-story high-school building from F. W. Finn, Altoona, at $149,330, and Pitzell & Kuhn, Lancaster, at $207,169. A. A. Richter, Reading, Penn., Arch.

Penn., Philadelphia—(Bustleton)—(Official)—Contract for two-story school addition awarded to MELODY & KEATING, Bailey Bldg., at $40,444. Noted Oct. 28.

Ga., Macon—(Official)—Contract for three-story, 84x245-ft. main station, 54x12-ft. baggage building, 54x132-ft. express building for Central of Georgia R.R. Co. awarded to J. HENRY MILLER, Baltimore, Md. Estimated cost, $1,000,000. Noted Sept. 30.

Tenn., Nashville—Contract for seven-story office building for Nashville Property Co. awarded to AMERICAN CONSTRUCTION CO.

Ohio, Athens—Contract awarded to CULLEN & VAUGHN, Hamilton, Ohio, at $97,796, for women's dormitory for Ohio University. Noted Oct. 14.

Ind., Terra Haute—(Official)—A. W. Stoolman, Champaign, Ill., submitted lowest bid for building for Masonic Temple Association. Estimated cost, $90,000. Noted Oct. 7.

Ill., Alton—Alton State Hospital awarded contract for dinning hall to FRANK VOORHEES, at $70,000.

Wis., Madison—State Board of Control of Charitable and Penal Institutions awarded contract for substructure of first unit of Southern Home for Feeble-Minded, Racine County, to C. A. DIEMAN CO., Wauwatosa.

Iowa, Rock Rapids—Contract for three-story courthouse awarded to A. M. WOLD CONSTRUCTION CO., Brookings, S. D., at $107,300. Noted Oct. 7 and 28.

Kan., Hiawatha—Contract awarded to CENTRAL CONCRETE CONSTRUCTION CO., Kansas City, Mo., at $53,650, for erecting high school. Noted Oct. 28.

Tex., El Paso—Contract for high school awarded to AMERICAN CONSTRUCTION CO., Houston, at $272,900. Noted Oct. 14.

Wash., Seattle—(Official)—Board of Regents, University of Washington, awarded contract for university building to TINNE & GJARDE, 725 Northern Bank and Trust Bldg., Seattle, at $99,936. Noted Oct 7.

Calif., San Francisco—Standard Oil Co. awarded contract for addition at Bush and Sansome St. to P. J. WALKER CO., at $100,000.

SEWERS, BOSTON, MASS.

Bids were received Aug. 24 by the Board of Public Works for constructing sewers and drains in Albany St. from (A) William Barrett & Co.; (B) West Roxbury Trap Rock Co.; (C) James J. Conway; (D) Antony Cefalo; (E) Peter W. Hill; (F) Atlas Contracting Co.; (G) Coleman Bros.; (H) James J. Coughlin Co.; (I) George J. Regan; (J) George M. Bryne; (K) Anthony Baruffaldi; (L) M. De Sisto; (M) Bruno & Petitti; (N) McCarthy & Walsh; (O) Michael Russo & Co.; (P) A. G. Tomasello; (Q) J. H. Ferguson & Co.; (R) Hugh Nawn Contracting Co.

	A	B	C	D	E	F	G	H	
243 lin.ft. 24-in. pipe sewer	$2.57	$2.95	$1.00	$4.00	$2.65	$13.00	$2.00	$2.00	1.50
887 lin.ft. 18-in. pipe sewer	2.51	2.95	1.00	3.80	2.65	13.00	2.00	2.00	1.50
10 lin.ft. 15-in. pipe sewer	2.70	2.00	1.50	3.50	3.00	5.00	1.50	1.25	1.00
70 lin.ft. 12-in. pipe sewer	2.70	2.00	1.50	3.50	2.15	5.00	1.50	1.25	1.00
10 lin.ft. 10-in. pipe connection with intercepting sewer	10.00	2.00	3.00	3.50	1.75	5.00	1.50	1.50	1.50
1,700 lin.ft. 2 ft., 6 in. x 4 ft., 4 in. concrete sewer	3.67	3.75	2.00	4.50	4.10	3.50	3.25	3.25	3.00
650 lin.ft. 2 ft., 0 in. x 4 ft., 0 in. concrete sewer	3.00	3.25	2.00	4.00	3.20	13.50	3.00	3.25	3.00
100 cu.yd. excavation below grade	3.00	3.00	2.00	5.00	1.50	3.00	1.50	2.00	1.00
30 cu.yd. excavation above grade	3.00	.50	2.00	3.00	1.50	2.00	1.00	2.00	3.00
20 cu.yd. rock excavation	5.00	6.00	10.00	6.00	6.00	.....	2.00	5.00	5.00
200 cu.yd. clean gravel refill	.....	1.00	.....	4.00	1.50	.....	1.50	1.00	1.00
Spruce piles under 20 ft. in length	.25	.25	.25	.25	.25	.25	.25	.25	.25
Spruce piles 20 ft. to 30 ft. in length, both inclusive	.25	.25	.25	.25	.25	.25	.25	.25	.25
Spruce piles exceeding 30 ft. and including 40 ft.	.28	.28	.28	.28	.28	.28	.28	.28	.28
Spruce piles exceeding 40 ft. in length	.35	.35	.35	.35	.35	.35	.35	.35	.35
250 M ft. b.m. spruce lumber for sheeting and shoring	.....	.....	24.00	.....	.....	.....	20.00	25.00	.....
5 M ft. b.m. 2-in. spruce for sheeting and shoring	40.00	30.00	60.00	35.00	40.00	36.00	30.00	30.00	60.00
5 M ft. b.m. 3 to 6-in. planed grooved and Georgia pine	.....	.....	.....	.....	40.00	.....	34.00	40.00	.....
37 M ft. b.m. spruce lumber for pile gaps, platforms	30.00	30.00	30.00	.....	40.00	40.00	35.00	25.00	50.00
3,540 lin.ft. pipe underdrain	.20	.05	.....	.25	.25	.30	.20	.30	.....
1,850 cu.yd., Class A, concrete	6.80	8.00	7.00	7.00	7.00	.....	7.00	7.50	8.00
Class A, concrete mixed hydrated lime	.50	.50	.50	.50	.50	.50	.50	.50	.50
Class B concrete	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Class C concrete	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
460 lin.ft. 10-in. pipe catch basin drain	.75	1.00	1.00	1.00	1.00	.60	1.00	1.25	2.00
Pipe for chimneys	.15	.15	.15	.15	.15	.15	.15	.15	.15
100 lin.ft. laying pipe house drain	.....	1.00	1.00	.....	1.00	1.00	1.00	1.00	1.00
350 lin.ft. relay, reconn., existing house drain, in or outside main trench	1.00	1.00	.10	4.00	1.00	.....	.70	1.00	3.00
240 lin.ft. relaying, reconnect., existing catch basin drain	1.00	1.00	.10	3.00	1.00	.....	.70	1.00	3.00
50 lin.ft. relaying, reconn., existing drain other than house and catch basin drain	.....	.50	.10	.....	1.00	.....	1.00	1.25	.....
50 lin.ft. relaying, reconn., existin drain outside main trench other than house and catch basin drain	.....	.50	2.00	.....	1.00	.....	1.00	1.25	.....
Placing Y's in existing pipe sewers or surface drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Placing slants or connections in existing masonry sewers drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
360 slants or connections in new masonry sewers or sewers drain	.10	.10	.10	.10	.50	.....	.20	.25	.10
Laying and connecting 3 to 10-in. metal pipe in or outside main trench	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
115 tons steel rods or bars for masonry rein	49.00	35.00	40.00	42.00	35.00	.....	45.00	40.00	60.00
14 manholes on new concretes	30.00	40.00	40.00	40.00	60.00	50.00	45.00	45.00	45.00
7 manholes on new or old sewers	35.00	40.00	40.00	45.00	40.00	50.00	60.00	45.00	50.00
1 manhole on existing masonry sewer	40.00	40.00	50.00	50.00	75.00	60.00	60.00	45.00	50.00
1 sump manhole	50.00	75.00	100.00	50.00	75.00	120.00	70.00	50.00	50.00
8 catch basins built	50.00	60.00	40.00	60.00	60.00	.....	40.00	40.00	60.00
40 existing catch basins rebuilt	5.00	10.00	20.00	10.00	30.00	.....	13.00	30.00	30.00
Other brick masonry	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
Catch basin traps taken out and reset and catch basin drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Guttermouths for catch basins or drop inlets cut in existing edgestone	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
1 connection between new and existing conduits	5.00	10.00	50.00	10.00	25.00	5,000	50.00	30.00	50.00
170 sq.yd. granite block paving	.50	1.00	1.00	.....	.75	.....	.40	.50	1.00
60 ton crushed stone	1.50	1.50	1.50	3.00	2.00	.....	2.00	1.75	2.50
Placing cradles for pipe crossings for pipes	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
6,400 list value single strength sewer pipe	74%	73%	70%	75%	60%	73%	67%	70%	70%
$100 list value double strength sewer pipe	64%	65%	50%	100%	50%	50%	61%	65%	60%
1 tide gate chamber	25.00	200.00	150.00	50.00	100.00	230.00	200.00	50.00	75.00
170 sq.yd. existing pavement with concrete base rem	.50	.30	1.00	.50	.75	.30	.60	.35	30
2,030 lin.ft. old sewers removed	.....	.....	.50	.....	1.00	.....	1.00	.10	.....
Supporting and protecting buildings and structures	.....	.....	.....	.....	100.00	100.00	25.00	100.00	.....
4 old catch basins removed, contents masonry, stone work inc	5.00	10.00	25.00	60.00	15.00	.....	10.00	15.00	.....
Extended totals	$36,414	$37,183	$37,985	$41,893	$42,277	$43,782	$43,789	$44,322	$45,962

	J	K	L	M	N	O	P	Q	R
243 lin.ft. 24-in. pipe sewer	$2.75	$3.00	$1.75	$2.00	$2.65	$3.00	$1.75	$1.60	$5.50
887 lin.ft. 18-in. pipe sewer	2.65	3.00	1.75	2.00	2.50	3.00	1.60	1.40	5.20
10 lin.ft. 15-in. pipe sewer	2.00	3.00	1.00	1.50	2.50	2.00	1.00	2.00	4.90
70 lin.ft. 12-in. pipe sewer	1.50	3.00	1.25	1.50	2.00	1.75	1.50	1.50	4.60
10 lin.ft. 10-in. pipe connection with intercepting sewer	2.50	5.00	3.00	3.00	2.50	1.00	1.00	4.00	7.00
1,700 lin.ft. 2 ft., 6 in. x 4 ft., 4 in. concrete sewer	3.50	7.10	3.75	4.00	5.00	3.00	3.50	4.75	9.30
650 lin.ft. 2 ft., 0 in. x 4 ft., 0 in. concrete sewer	2.75	7.85	3.75	4.00	4.00	3.00	2.75	3.50	6.00
100 cu.yd. excavation below grade	2.00	2.00	1.50	1.50	2.00	2.00	.50	3.00	3.00
30 cu.yd. excavation above grade	1.00	2.00	1.00	1.00	2.00	1.75	1.00	3.00	3.00
20 cu.yd. rock excavation	5.00	5.00	5.00	3.00	.....	5.00	3.00	5.00	5.00
200 cu.yd. clean gravel refill	1.25	.....	1.50	2.00	1.75	1.75	1.50	2.00	1.00
Spruce piles under 20 ft. in length	.25	.25	.25	.25	.25	.25	.25	.25	.25
Spruce piles 20 ft. to 30 ft. in length, both inclusive	.25	.25	.25	.25	.25	.25	.25	.25	.25
Spruce piles exceeding 30 ft. and including 40 ft.	.28	.28	.28	.28	.28	.28	.28	.28	.28
Spruce piles exceeding 40 ft. in length	.35	.35	.35	.35	.35	.35	.35	.35	.35
250 M ft. b.m. spruce lumber for sheeting and shoring	25.00	21.00	25.00	20.00	26.00	20.00	20.00	22.00	25.00
5 M ft. b.m. 2-in. spruce for sheeting and shoring	30.00	26.00	40.00	25.00	.....	23.00	30.00	30.00	30.00
5 M ft. b.m. 3 to 6-in. planed grooved and Georgia pine	40.00	.01	50.00	30.00	.....	23.00	50.00	45.00	40.00
37 M ft. b.m. spruce lumber for pile gaps, platforms	35.00	.01	40.00	35.00	40.00	40.00	30.00	40.00	35.00
3,540 lin.ft. pipe underdrain	.15	.10	.50	.25	.20	.30	.15	.20	.15
1,850 cu.yd., Class A, concrete	7.50	6.00	7.50	8.00	8.00	7.50	8.50	8.00	8.00
Class A, concrete mixed hydrated lime	.50	.50	.50	.50	.50	.50	.50	.50	.50
Class B concrete	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Class C concrete	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
460 lin.ft. 10-in. pipe catch basin drain	.75	.01	.75	1.00	1.50	1.00	.90	.60	2.50
Pipe for chimneys	.15	.15	.15	.15	.15	1.00	.15	.15	.15
100 lin.ft. laying pipe house drain	1.00	.01	.25	1.00	.....	1.00	1.00	.75	2.00
350 lin.ft. relay, reconn., existing house drain, in or outside main trench	1.50	1.00	.40	.50	1.00	.....	.60	.60	1.50
240 lin.ft. relaying, reconnect., existing catch basin drain	.75	1.00	.50	.50	1.25	1.00	1.00	.60	2.00
50 lin.ft. relaying, reconn., existing drain other than house and catch basin drain	1.00	.01	.50	.50	.....	1.00	.50	1.00	.50
50 lin.ft. relaying, reconn., existin drain outside main trench other than house and catch basin drain	1.50	.01	.25	.50	.....	1.00	1.00	1.00	2.00
Placing Y's in existing pipe sewers or surface drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Placing slants or connections in existing masonry sewers drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
360 slants or connections in new masonry sewers or sewers drain	.10	.10	.50	.10	.10	5.00	.10	.10	.10
Laying and connecting 3 to 10-in. metal pipe in or outside main trench	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
115 tons steel rods or bars for masonry rein	50.00	40.00	45.00	60.00	40.00	55.00	80.00	60.00	50.00
14 manholes on new concretes	35.00	40.00	50.00	35.00	60.00	58.00	60.00	45.00	55.00
7 manholes on new or old sewers	40.00	40.00	50.00	50.00	50.00	55.00	75.00	60.00	65.00
1 manhole on existing masonry sewer	40.00	40.00	50.00	50.00	50.00	58.00	60.00	60.00	75.00
1 sump manhole	45.00	40.00	65.00	75.00	70.00	70.00	125.00	100.00	88.00
8 catch basins built	55.00	60.00	57.00	50.00	55.00	60.00	50.00	70.00	50.00
40 existing catch basins rebuilt	20.00	2.00	25.00	10.00	20.00	60.00	35.00	30.00	35.00
Other brick masonry	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
Catch basin traps taken out and reset and catch basin drain	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Guttermouths for catch basins or drop inlets cut in existing edgestone	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
1 connection between new and existing conduits	25.00	10.00	50.00	5.00	25.00	10.00	5.00	50.00	25.00
170 sq.yd. granite block paving	1.00	1.00	.45	.50	1.00	1.75	2.00	1.50	.50
60 ton crushed stone	2.00	1.00	1.50	1.75	2.00	1.50	2.25	1.60	1.50
Placing cradles for pipe crossings for pipes	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
6,400 list value single strength sewer pipe	65%	75%	70%	70%	72%	70%	66%	70%	70%
$100 list value double strength sewer pipe	55%	60%	50%	60%	60%	65%	66%	60%	60%
1 tide gate chamber	50.00	100.00	300.00	50.00	150.00	100.00	250.00	150.00	87.00
170 sq.yd. existing pavement with concrete base rem	.35	.25	.50	.50	.25	.50	1.00	.40	.60
2,030 lin.ft. old sewers removed	.25	.10	.25	.25	.....	.15	.05	.40	.50
Supporting and protecting buildings and structures	50.00	5.00	10.00	10.00	.....	.....	10.00	.....	500.00
4 old catch basins removed, contents masonry, stone work inc	12.00	5.00	5.00	10.00	10.00	60.00	10.00	25.00	25.00
Extended totals	$46,258	$47,010	$47,075	$47,158	$49,154	$49,604	$49,799	$50,100	$65,433